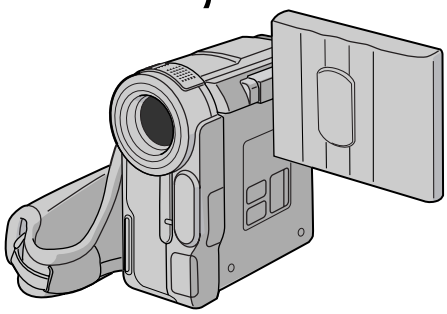
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DX45E$_X$, GR-DX45E$_Y$, GR-DX45E$_Z$, GR-DX45EK, GR-DX55E$_X$, GR-DX55E$_Y$, GR-DX55E$_Z$, GR-DX55EK



Mini DV PAL

Regarding service information other than these sections, refer to the service manual No. 86740 (GR-DX75EX). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DX25EK, GR-DX35EK, GR-DX45EK and GR-DX55EK.)*

Camcorder

General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 3.4 W
LCD monitor on, viewfinder off	: Approx. 4.6 W
Dimensions (W x H x D)	: 55 mm x 102 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 440 g (without grip belt)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C
Pickup	: 1/6" CCD
Lens	: F1.6, f =2.7 mm to 43.2 mm, 16:1 power zoom lens
Filter diameter	: ø30.5 mm
LCD monitor	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-DX55/DX45) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DX35/DX25)
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/ Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP : 18.8 mm/s LP : 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP : 80 min. LP : 120 min.

Connectors

S/AV	
S-Video output	: Y : 1 V (p-p), 75 Ω, analogue C : 0.29 V (p-p), 75 Ω, analogue
S-Video input*	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analogue
Video output	: 1 V (p-p), 75 Ω, analogue
Video input*	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue
Audio output	: 300 mV (rms), 1 kΩ, analogue, stereo
Audio input*	: 300 mV (rms), 50 kΩ, analogue, stereo
Edit	: ø3.5 mm, 2-pole
DV	
Output	: 4-pin, IEEE 1394 compliant
Input*	: 4-pin, IEEE 1394 compliant
USB	: 5-pin

* GR-DX55/DX35 only.

AC Adapter

Power requirement	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DX45EK M3D334
GR-DX45EX M3D334
GR-DX45EY M3D334
GR-DX45EZ M3D334
GR-DX55EK M3D335
GR-DX55EX M3D335
GR-DX55EY M3D335
GR-DX55EZ M3D335

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No.86752
2003/06

CONTENTS

DIFFERENT LIST ..... 1 only

5. PARTS LIST 5-1

DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DX75EX, GR-DX45EK, GR-DX45EX, GR-DX45EY, GR-DX45EZ, GR-DX55EK, GR-DX55EX, GR-DX55EY and GR-DX55EZ.

ITEM \ MODEL	GR-DX75EX	GR-DX45EK	GR-DX45EX	GR-DX45EY	GR-DX45EZ	GR-DX55EK	GR-DX55EX	GR-DX55EY	GR-DX55EZ
LCD MONITOR	2.5 INCH	3.0 INCH	←	←	←	←	←	←	←
VIDEO FLASH	USED	NOT USED	←	←	←	←	←	←	←
DSC FLASH MEMORY(MEMORY CARD)	USED(MMC-8MB)	NOT USED	←	←	←	←	←	←	←
E-MAIL VIDEO CLIP REC	USED	NOT USED	←	←	←	←	←	←	←
DIGITAL STILL CAMERA	USED	NOT USED	←	←	←	←	←	←	←
ANALOG INPUT	USED	NOT USED	←	←	←	USED	←	←	←
DV TERMINAL	USED(IN/OUT)	USED(OUT)	←	←	←	USED(IN/OUT)	←	←	←
AC CORD	CEE PLUG	BS PLUG	CEE PLUG	←	←	BS PLUG	CEE PLUG	←	←
MEMORY CARD	PROVIDED(MMC 8MB)	NOT USED	←	←	←	←	←	←	←

Notes: Mark ← is same as left.

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0306 VP

SECTION 5
PARTS LIST

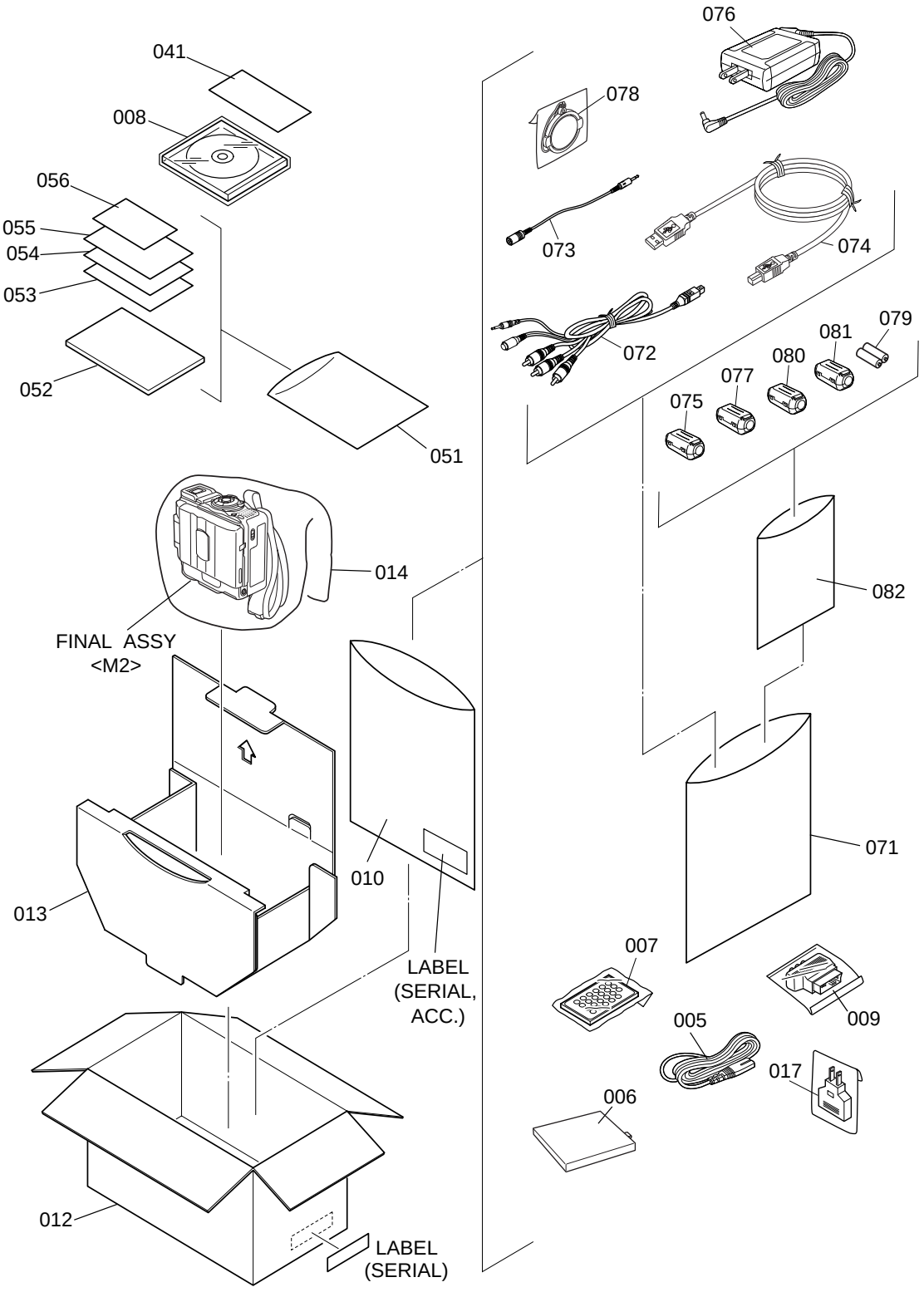
5.1 EXPLODED VIEW

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.
BEWARE OF BOGUS PARTS
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

5.1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

The instruction manual to be provided with this product will differ according to the destination.



5.1.2 FINAL ASSEMBLY<M2>

<M2> FINAL ASS'Y

Table.1 WIRE(FPC) CONNECTION TABLE

PWB NAME	CN No.		ASS'Y NAME	WIRE(FPC)NAME
MAIN PWB ASS'Y	CN101	⇔	LOWER ASS'Y(F)	BATT.TERM.
MAIN PWB ASS'Y	CN102	⇔	LOWER ASS'Y(F)	CCD
MAIN PWB ASS'Y	CN103	⇔	MECHA(A) ASS'Y	LOAD.MOTOR
MAIN PWB ASS'Y	CN104	⇔	MECHA(A) ASS'Y	DRUM MOTOR
MAIN PWB ASS'Y	CN106	⇔	MECHA(A) ASS'Y	SENSOR
MAIN PWB ASS'Y	CN107	⇔	MECHA(A) ASS'Y	R.ENC
MAIN PWB ASS'Y	CN108	⇔	MECHA(A) ASS'Y	CAPSTAN
MAIN PWB ASS'Y	CN109	⇔	LOWER ASS'Y(F)	SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y	CN110	⇔	MECHA(A) ASS'Y	HEAD
MAIN PWB ASS'Y	CN111	⇔	LOWER ASS'Y(F)	CAMERA OPE
MAIN PWB ASS'Y	CN112	⇔	UPPER ASS'Y(G)	SUB OPE
MAIN PWB ASS'Y	CN113	⇔	UPPER ASS'Y(G)	MONI PWB
MAIN PWB ASS'Y	CN114	⇔	MIC ASS'Y	MIC WIRE
MAIN PWB ASS'Y	CN115	⇔	FRONT ASS'Y(G)	STROBE PWB

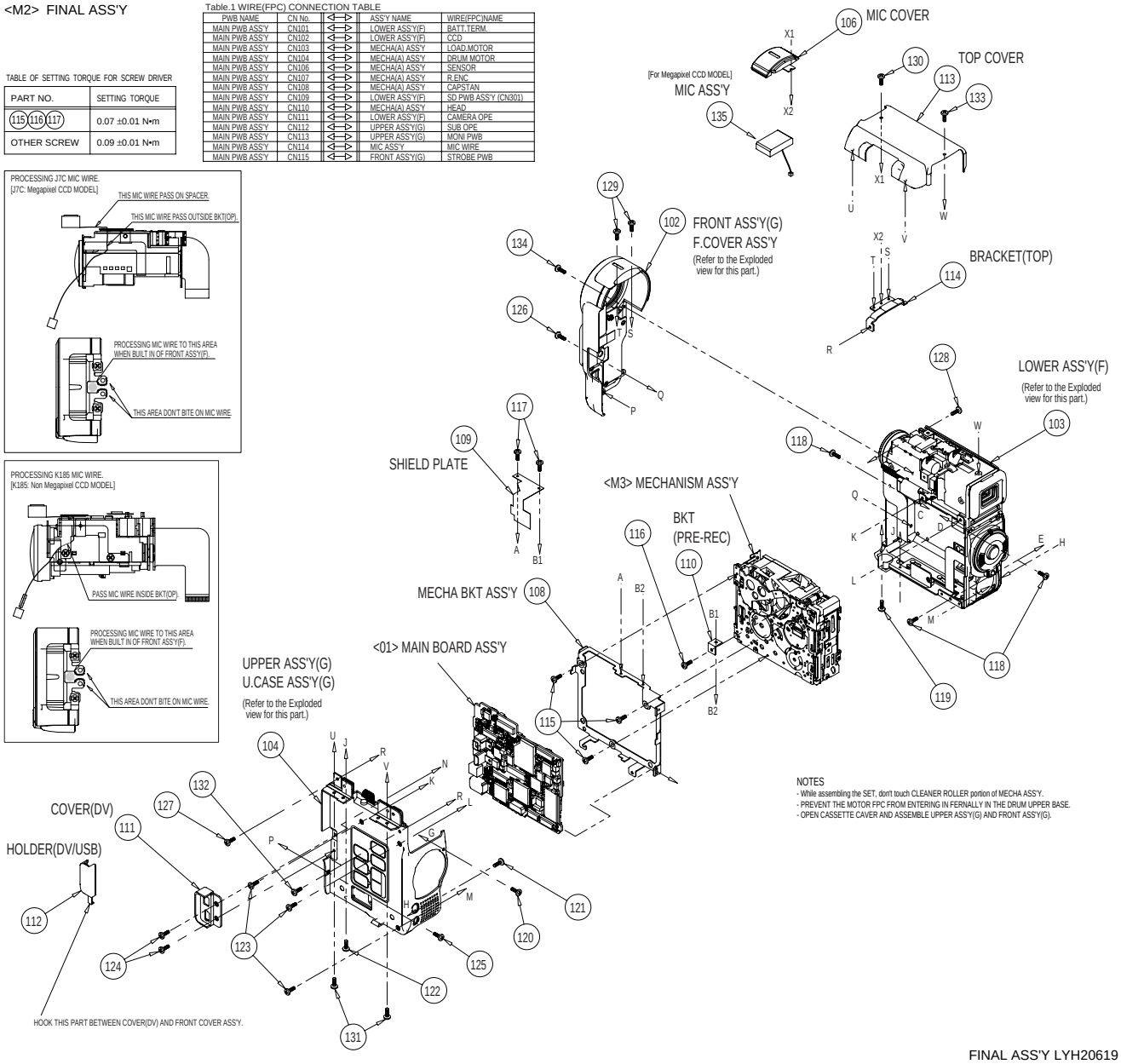
TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
115 116 117	0.07 ±0.01 N•m
OTHER SCREW	0.09 ±0.01 N•m

PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]

THIS MIC WIRE PASS ON SPACER
THIS MIC WIRE PASS OUTSIDE BKT(OP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.

PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]



NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).

FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
188 189	0.069 ±0.007 N•m

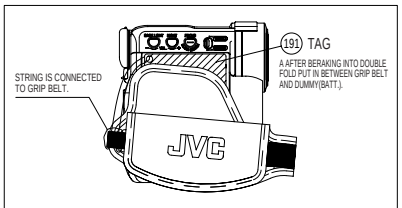
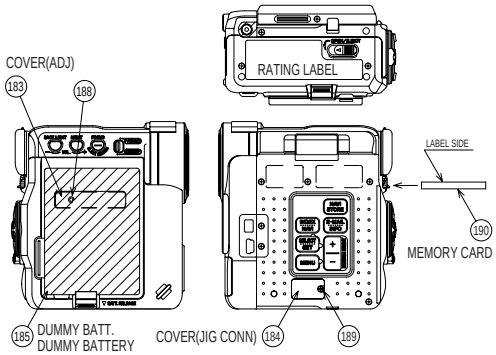
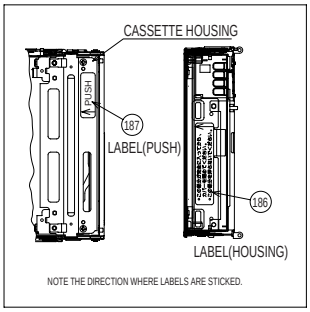


FIG. PROCESSING TAG

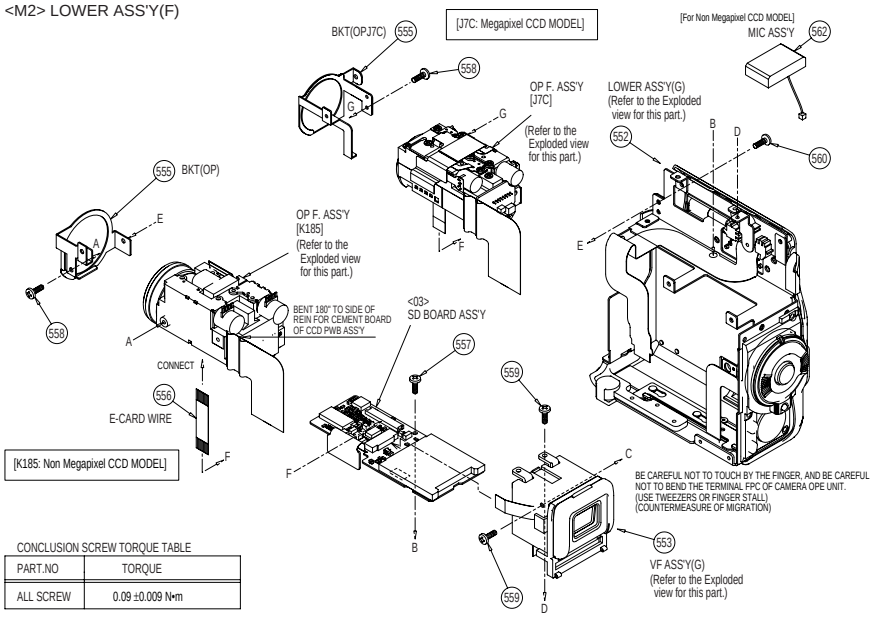




NOTE THE DIRECTION WHERE LABELS ARE STICKED.

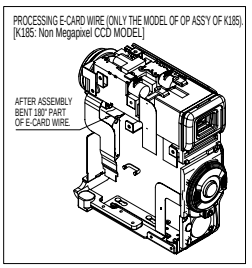
5.1.3 LOWER ASSEMBLY(F) AND LOWER ASSEMBLY(G)<M2>

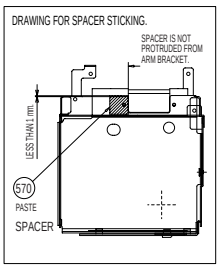
<M2> LOWER ASS'Y(F)

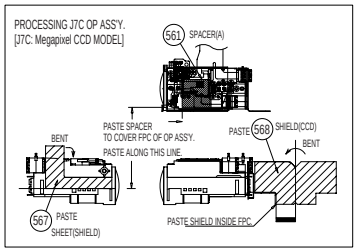

BKT(OPJ7C) 555
[J7C: Megapixel CCD MODEL]
[For Non Megapixel CCD MODEL]
MIC ASS'Y 562
558
OP F. ASS'Y [J7C]
(Refer to the Exploded view for this part.)
LOWER ASS'Y(G) (Refer to the Exploded view for this part.)
552
560
555 BKT(OP)
OP F. ASS'Y [K185]
(Refer to the Exploded view for this part.)
BENT 180° TO SIDE OF REIN FOR CEMENT BOARD OF CCD PWB ASS'Y
<03> SD BOARD ASS'Y
557
559
CONNECT
556
E-CARD WIRE
[K185: Non Megapixel CCD MODEL]
BE CAREFUL NOT TO TOUCH BY THE FINGER, AND BE CAREFUL NOT TO BEND THE TERMINAL FPC OF CAMERA OPE UNIT. (USE TWEEZERS OR FINGER STALL) (COUNTERMEASURE OF MIGRATION)
553
VF ASS'Y(G) (Refer to the Exploded view for this part.)

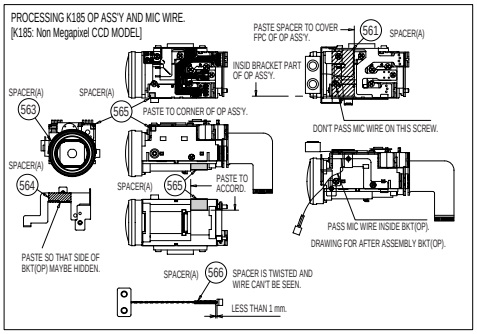
CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
ALL SCREW	0.09 ±0.009 N•m


PROCESSING E-CARD WIRE (ONLY THE MODEL OF OP ASS'Y OF K185) [K185: Non Megapixel CCD MODEL]
AFTER ASSEMBLY BENT 180° PART OF E-CARD WIRE





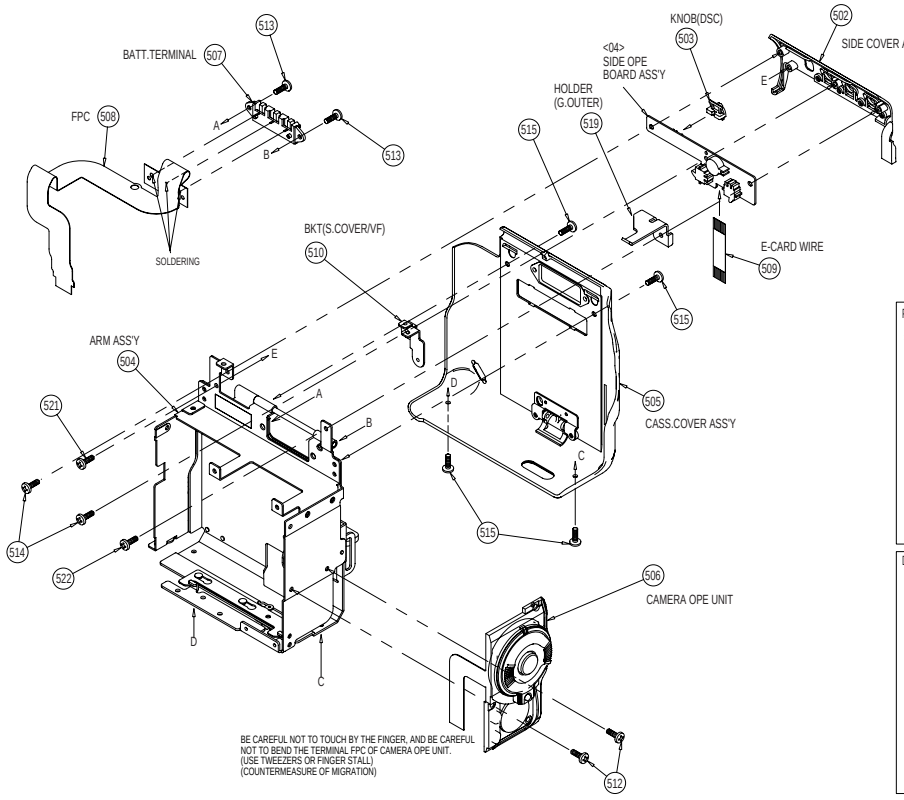


LOWER ASS'Y(F) LYH20622

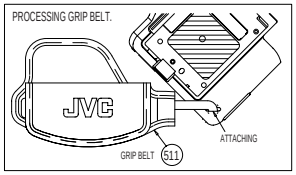
<M2> LOWER ASS'Y(G)

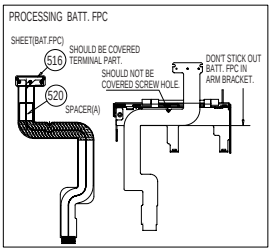
CONCLUSION SCREW TORQUE TABLE

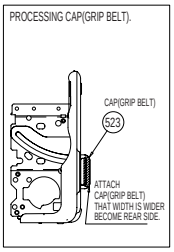
PART.NO	TORQUE
514	0.07 ±0.009 N•m
ANOTHER SCREW	0.12 ±0.01 N•m

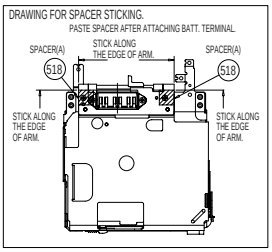


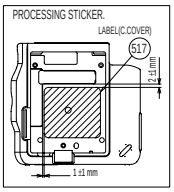
LOWER ASS'Y(G) LYH20620



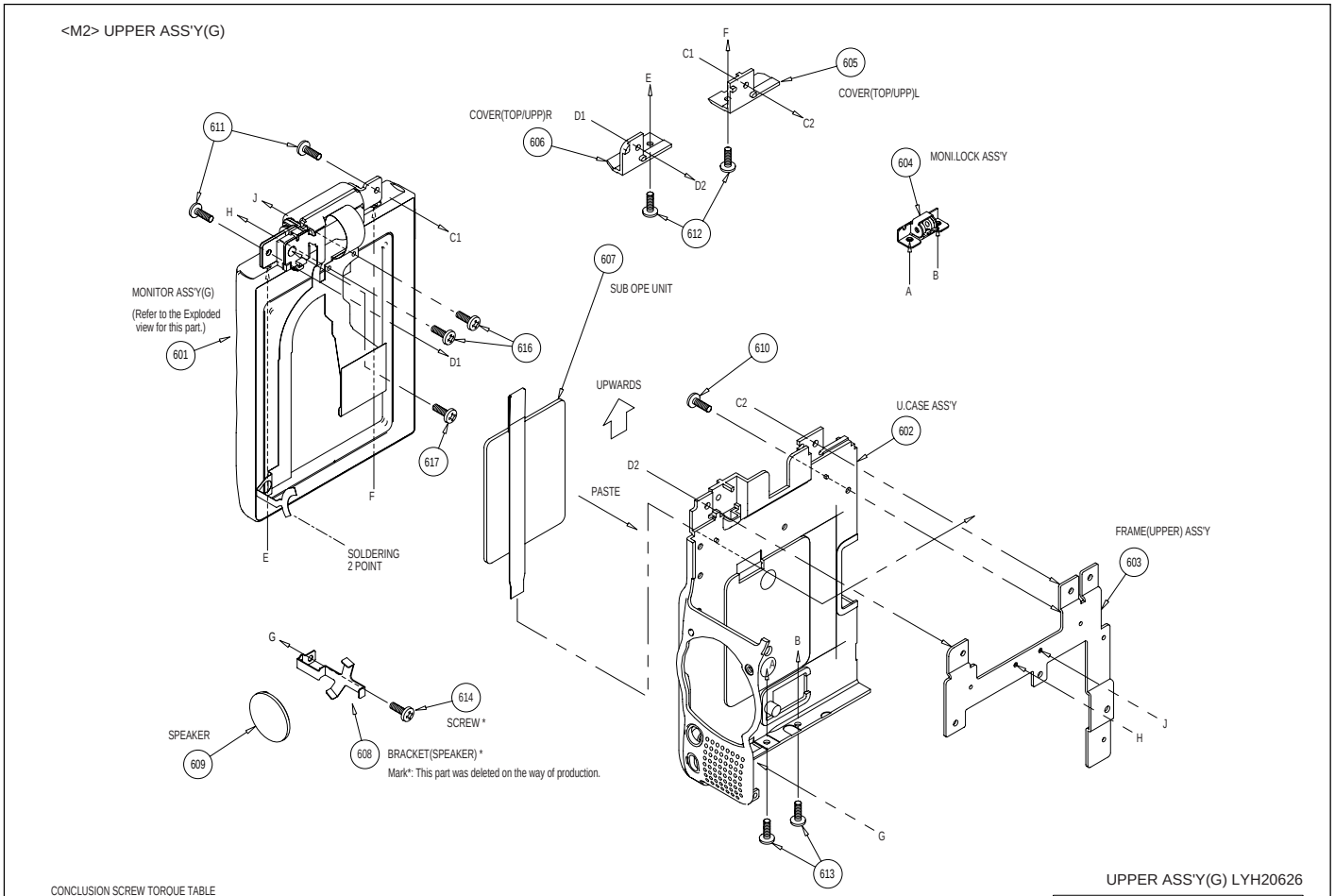








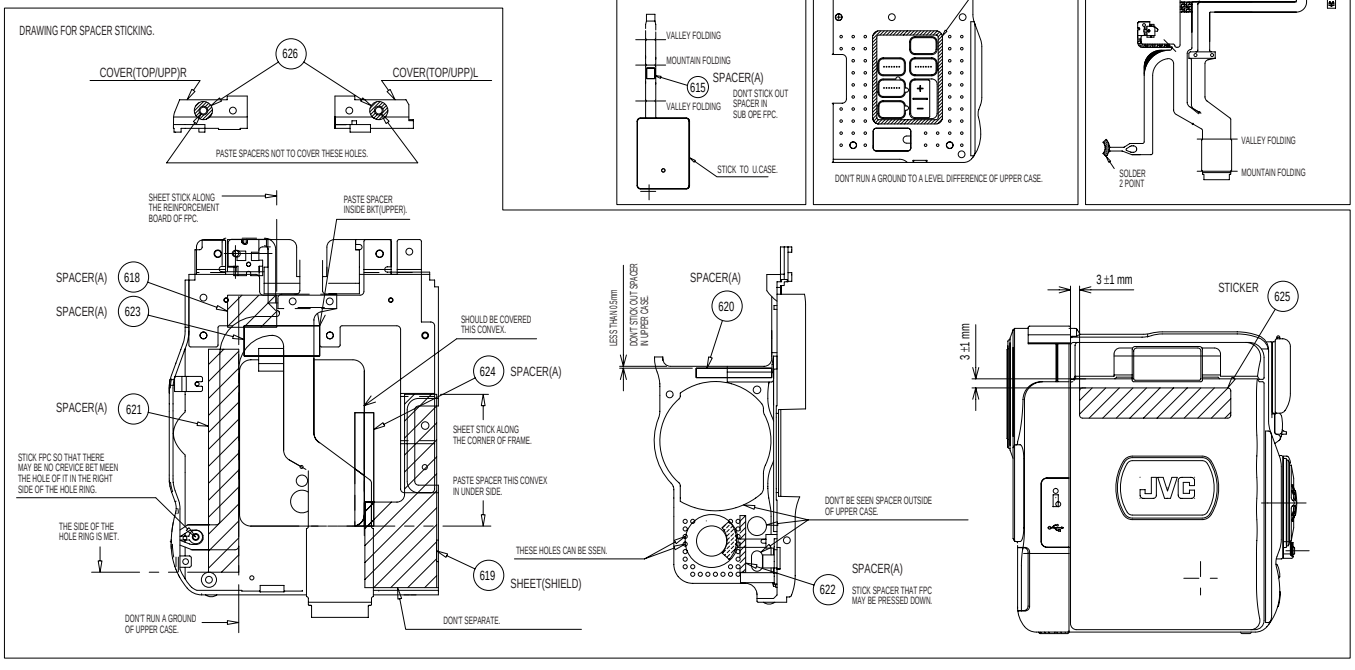
5.1.4 UPPER ASSEMBLY(G)<M2>



UPPER ASS'Y(G) LYH20626

CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
(611)	0.2 ±0.01 N•m
ANOTHER SCREW	0.08 ±0.01 N•m


DRAWING FOR SPACER STICKING.
COVER(TOP/UPP)R
COVER(TOP/UPP)L
PASTE SPACERS NOT TO COVER THESE HOLES.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
SPACER(A)
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
SOLDER 2 POINT
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SHOULD BE COVERED THIS CONVEX.
SHEET STICK ALONG THE CORNER OF FRAME.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
THE SIDE OF THE HOLE RING IS MET.
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE
THESE HOLES CAN BE SSEN.
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
3 ±1 mm
3 ±1 mm
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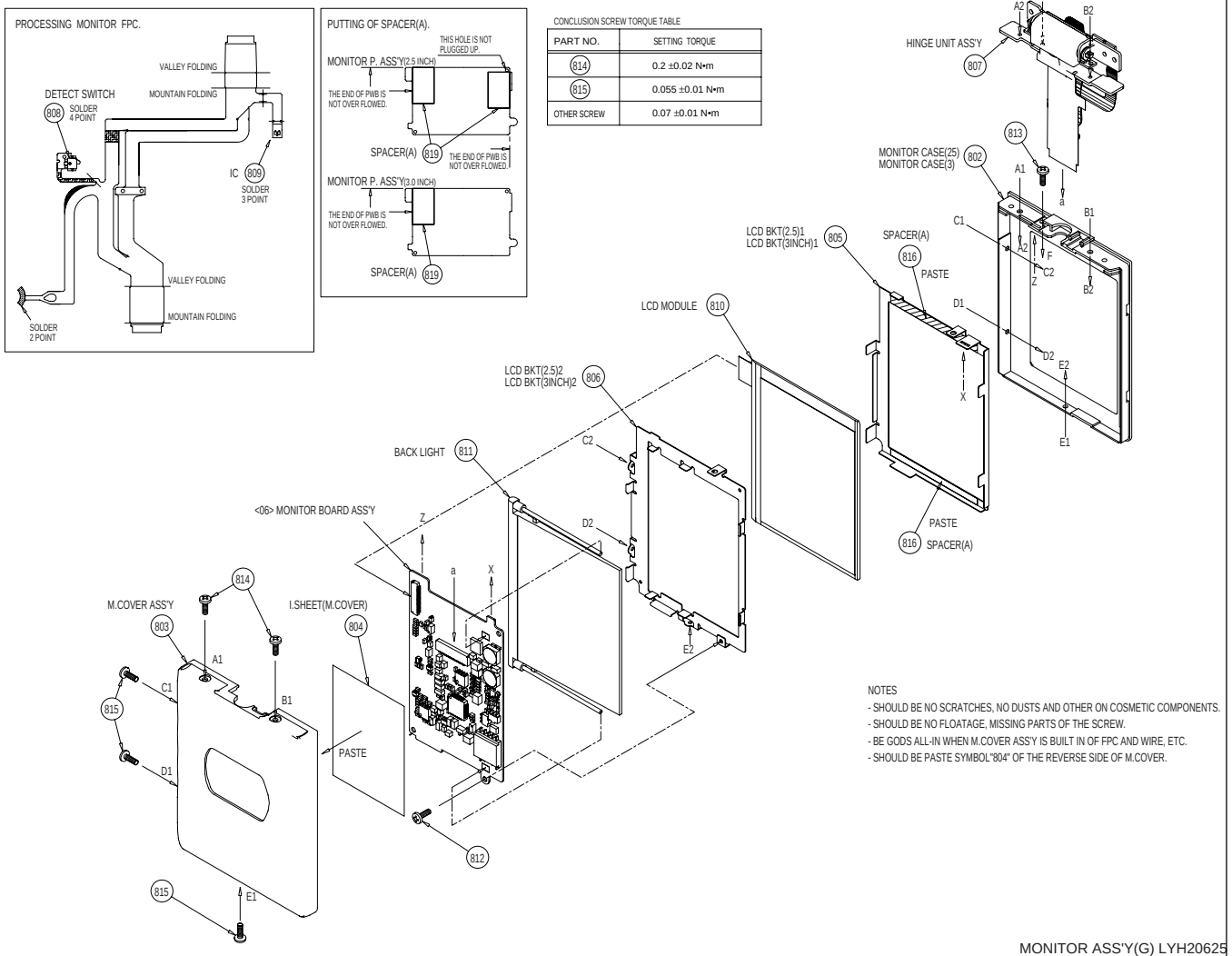
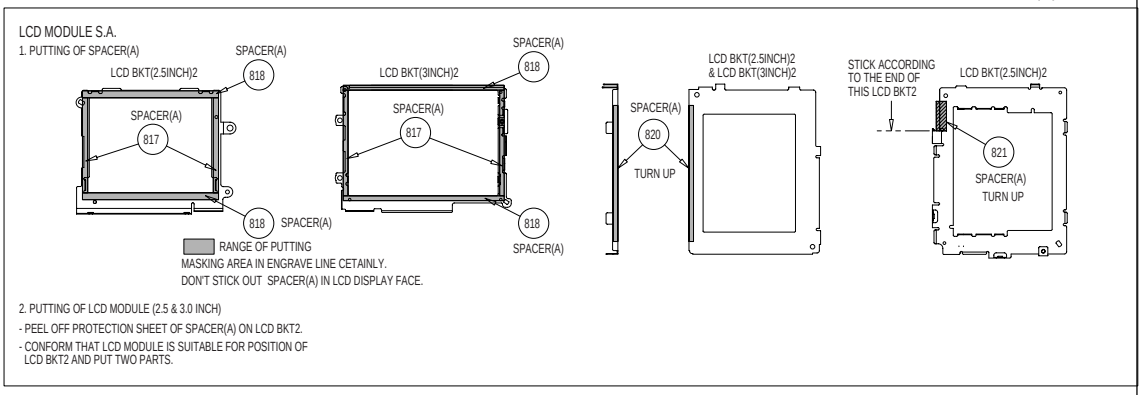
5.1.5 MONITOR ASSEMBLY(G)<M2>

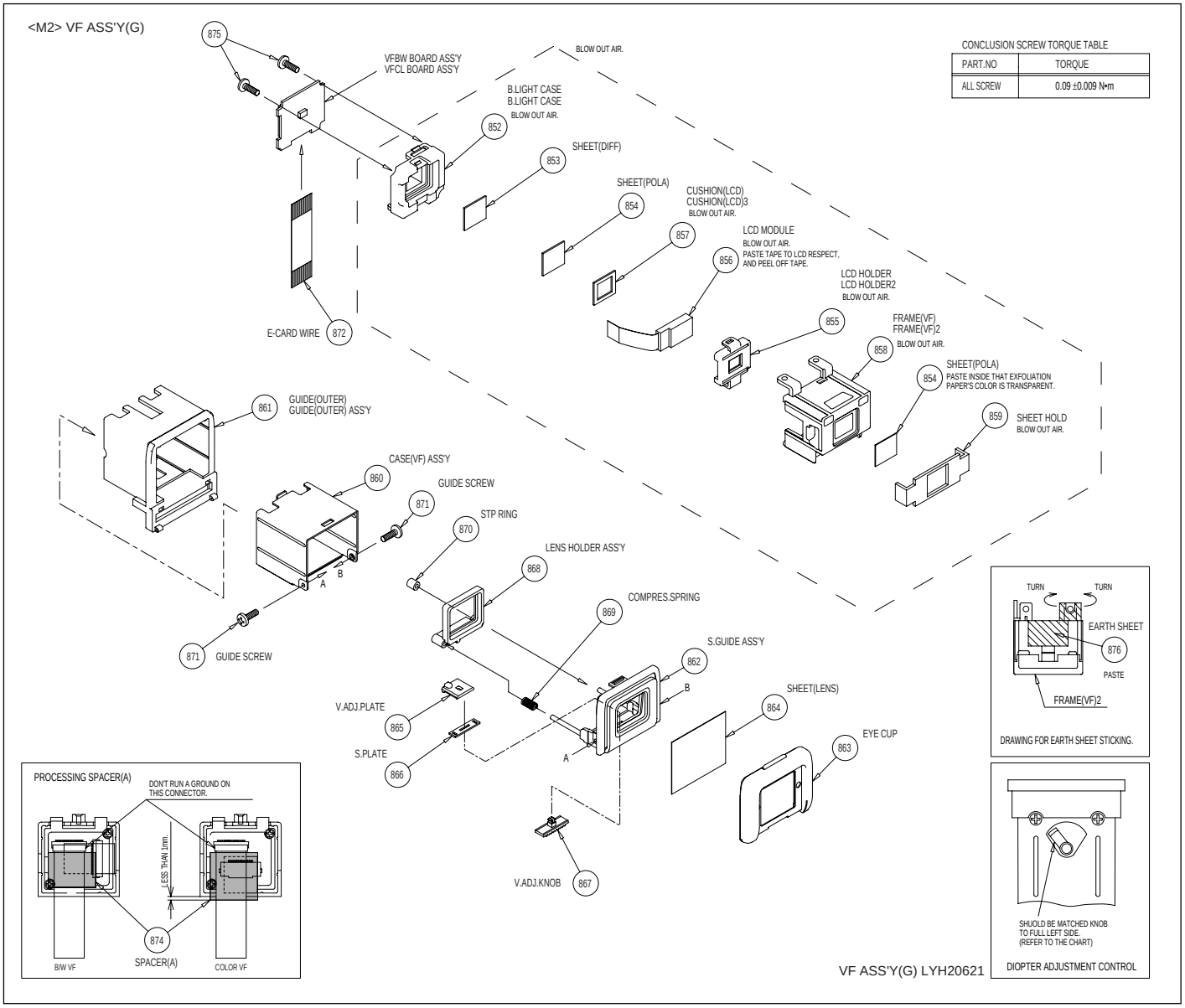
<M2> MONITOR ASS'Y(G)



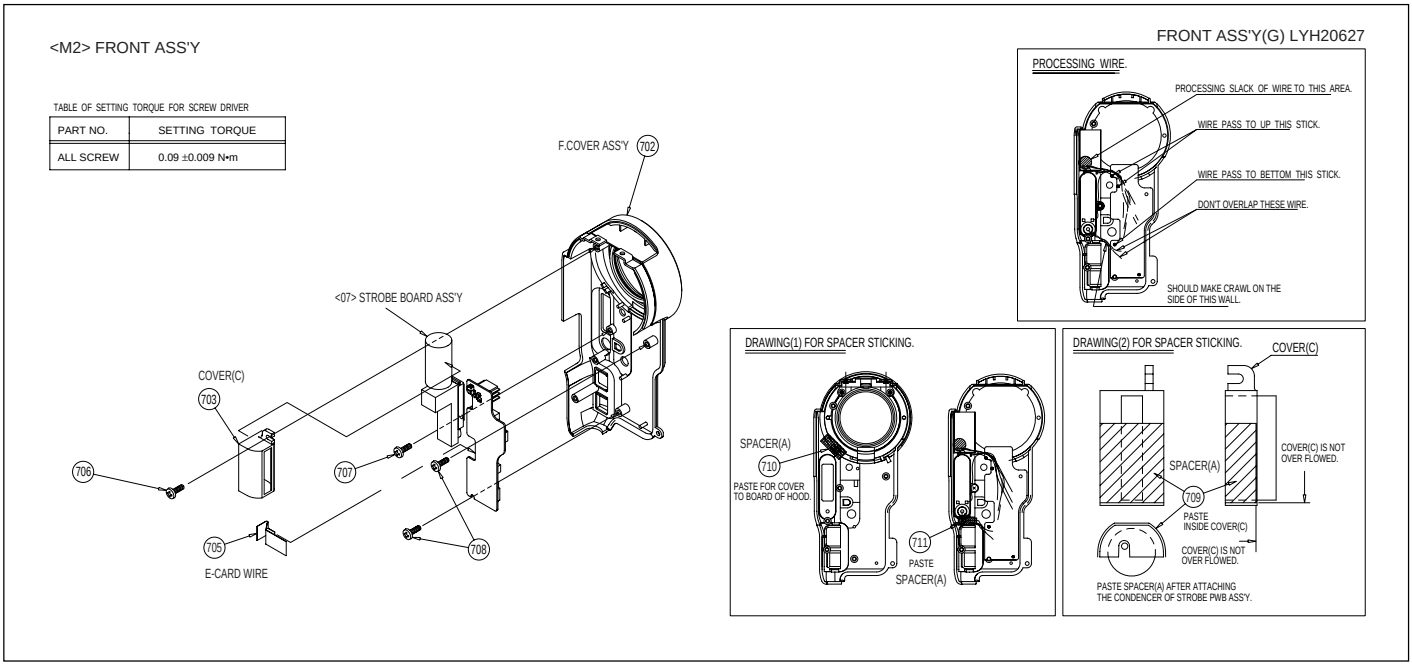
MONITOR ASS'Y(G) LYH20625


LCD MODULE S.A.
1. PUTTING OF SPACER(A)
LCD BKT(2.5INCH)2
SPACER(A)
818
SPACER(A)
817
RANGE OF PUTTING
MASKING AREA IN ENGRAVE LINE CETAINLY.
DON'T STICK OUT SPACER(A) IN LCD DISPLAY FACE.
LCD BKT(3INCH)2
LCD BKT(2.5INCH)2 & LCD BKT(3INCH)2
820
TURN UP
STICK ACCORDING TO THE END OF THIS LCD BKT2
821
2. PUTTING OF LCD MODULE (2.5 & 3.0 INCH)
- PEEL OFF PROTECTION SHEET OF SPACER(A) ON LCD BKT2.
- CONFORM THAT LCD MODULE IS SUITABLE FOR POSITION OF LCD BKT2 AND PUT TWO PARTS.

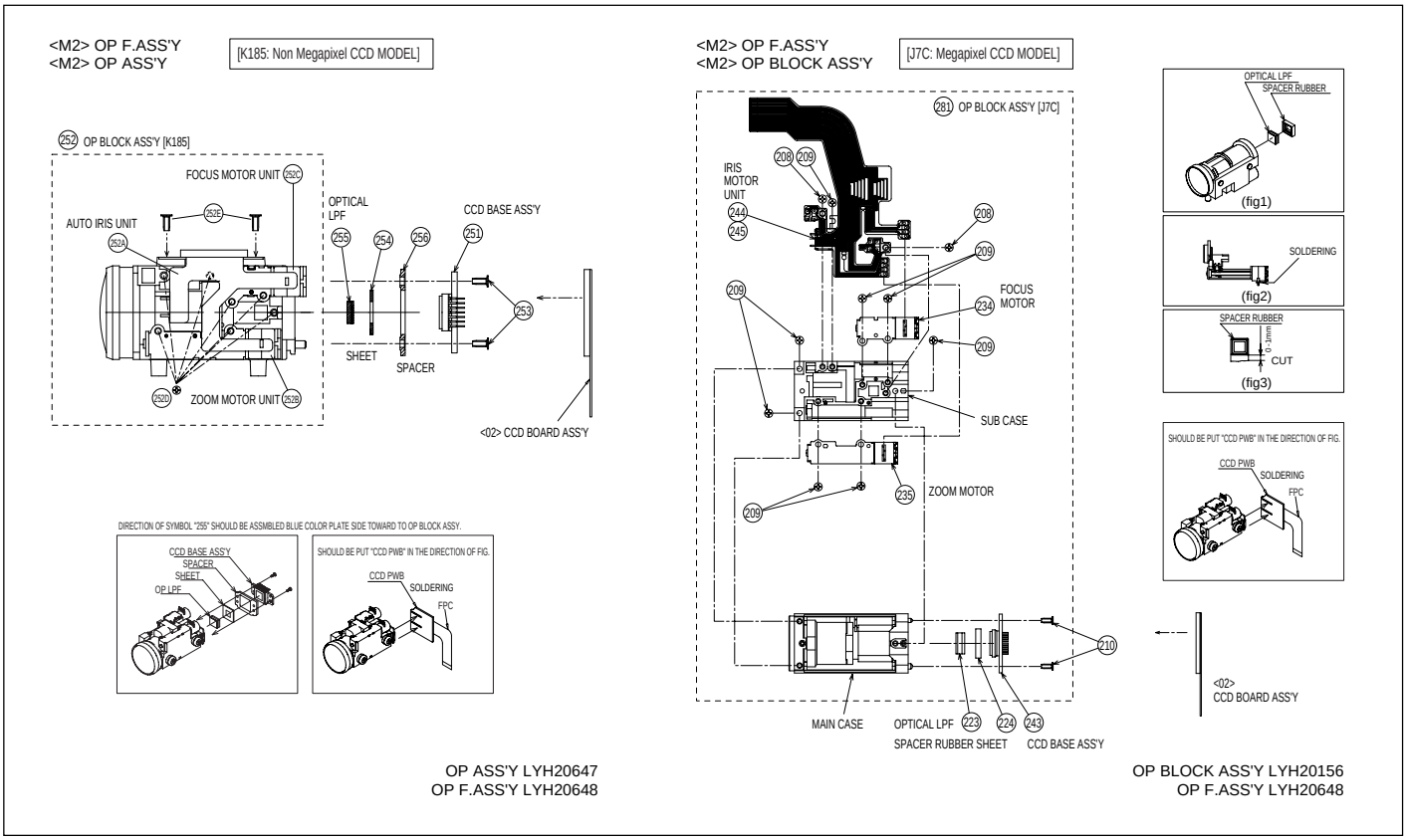
5.1.6 VF ASSEMBLY(G)<M2>



5.1.7 FRONT ASSEMBLY<M2>



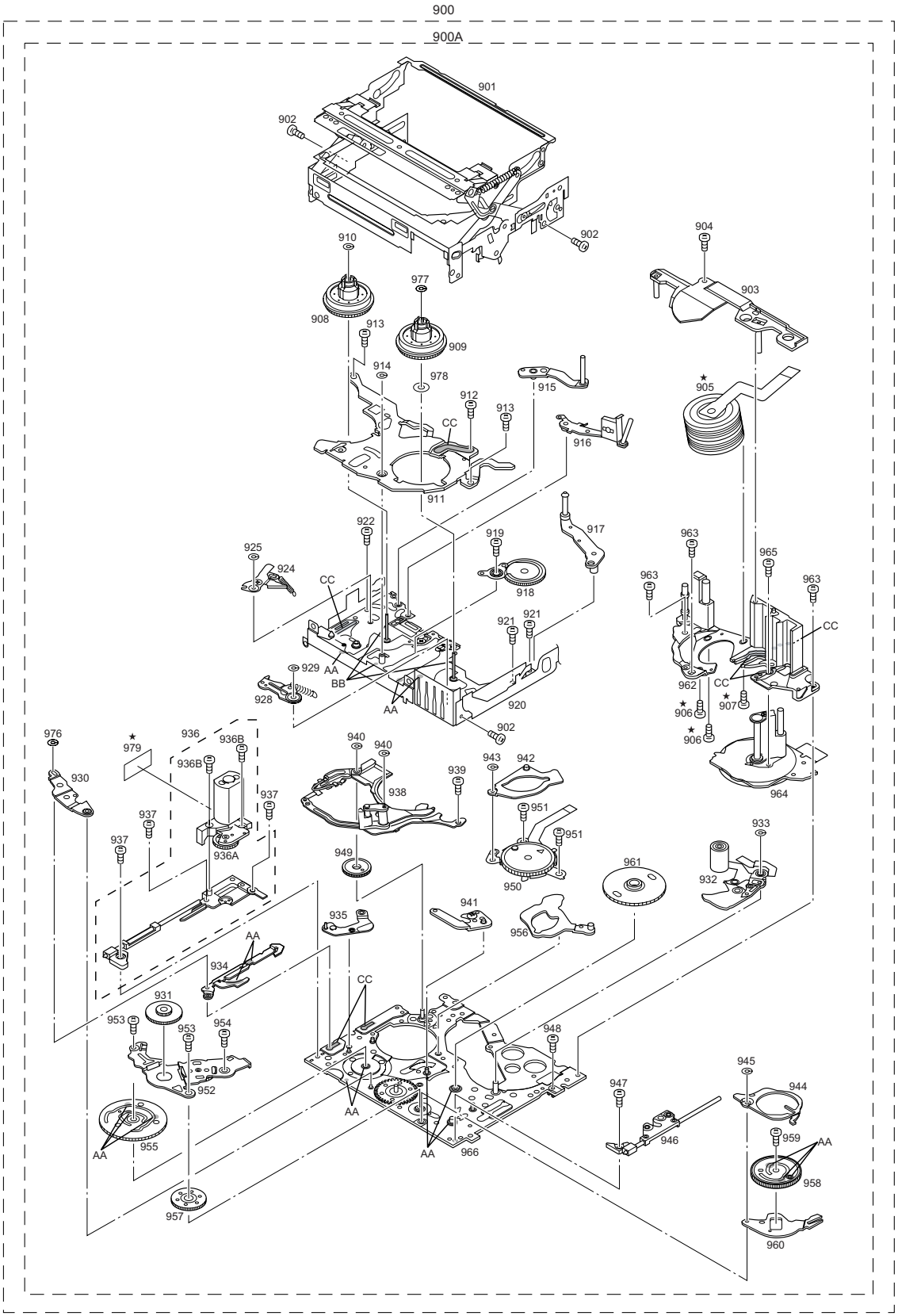
5.1.8 OP F. ASSEMBLY, OP ASSEMBLY AND OP BLOCK ASSEMBLY<M2>



OP ASS'Y LYH20647
OP F.ASS'Y LYH20648

OP BLOCK ASS'Y LYH20156
OP F.ASS'Y LYH20648

5.1.9 MECHANISM ASSEMBLY <M3>



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

NOTE2: Mark ⋆ is not contained in 900A.

5.2 PARTS LIST

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

PACKING AND ACCESSORY ASSEMBLY<M1>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	⚠	005	QMPL120-190-JR	POWER CORD,CEE PLUG,B,C,D,F,G,H
	⚠	005	QMPP110-190-JR	POWER CORD,BS PLUG,A,E
	⚠	006	LY32203-003A	B.PACK ASSY,BN-V107U-S
		007	LY20750-001A	REMOTE CTL UNIT,RM-V717U
		008	LY32210-048A	CD ROM ASSY
		009	QAM0302-001	ADAPTOR PLUG,PERI-RCAS
		010	QPA02503505P	POLY BAG,ACC.
		012	LY33433-005A	PACKING CASE
		013	LY21053-001B	CUSHION
		014	LY30023-003A	POLY BAG
		041	BT-54013-5	WARRANTY CARD,B,C,D,F,G,H
		041	BT-54008-5	GUARANTY CARD,A,E
		051	QPA02003506	POLY BAG,DOCUMENT
	⚠	052	LYT1120-001A	IB(EN),A,E
	⚠	052	LYT1120-002A	IB(GE),B,C,F,G
	⚠	052	LYT1120-003A	IB(FR),B,F
	⚠	052	LYT1120-004A	IB(DU),B,F
	⚠	052	LYT1120-005A	IB(SP),B,F
	⚠	052	LYT1120-006A	IB(IT),B,F
	⚠	052	LYT1120-007A	IB(DA),C,G
	⚠	052	LYT1120-008A	IB(FI),C,G
	⚠	052	LYT1120-009A	IB(SW),C,G
	⚠	052	LYT1120-010A	IB(NO),C,G
	⚠	052	LYT1120-011A	IB(RU),D,H
	⚠	052	LYT1120-012A	IB(CZ),D,H
	⚠	052	LYT1120-013A	IB(PO),D,H
	⚠	052	LYT1120-014A	IB(HU),D,H
		053	LYT1086-001A	IB(SOFT.EN),A,E
		053	LYT1086-002A	IB(SOFT.GE),B,C,F,G
		053	LYT1086-003A	IB(SOFT.FR),B,F
		053	LYT1086-004A	IB(SOFT.DU),B,F
		053	LYT1086-005A	IB(SOFT.SP),B,F
		053	LYT1086-006A	IB(SOFT.IT),B,F
		053	LYT1086-007A	IB(SOFT.DA),C,G
		053	LYT1086-008A	IB(SOFT.FI),C,G
		053	LYT1086-009A	IB(SOFT.SW),C,G
		053	LYT1086-010A	IB(SOFT.NO),C,G
		053	LYT1086-011A	IB(SOFT.RU),D,H
		054	LYT0194-001B	Q.CARD(JUK),A,E
		055	YU30878	REGIST. CARD,A,E
		056	LYT1119-015A	SHEET(ATT.VF.1),A,B,E,F
		056	LYT1119-016A	SHEET(ATT.VF.2),C,D,G,H
		071	QPA01703005	POLY BAG,CABLE ASSY
		072	QAM0415-001	MULTI CABLE,MULTI
		073	QAM0402-001	RM CABLE,EDIT EXT
		074	QAM0451-001	USB CABLE,USB
		075	QQR0491-002	CORE FILTER,USB 1T
	⚠	076	LY20955-001C	AC ADAPTER,AP-V13E
	⚠	076	or LY20956-001B	AC ADAPTER,AP-V11E
		077	QQR0917-002	CORE FILTER
		078	LY33346-001A	HOOD CAP ASSY
		079	———	BATTERY,X2,FOR RCU
		080	QQR0917-002	CORE FILTER,MULTI
		082	LY30023-014A	POLY BAG,CORE FILT.

FINAL ASSEMBLY<M2>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		102	LY21036-003D	F.COVER ASSY
		103	LYH20622-027B	LOWER ASSY(F),A,B,C,D
		103	LYH20622-003B	LOWER ASSY(F),E,F,G,H
		104	LYH20626-027B	UPPER ASSY(G),A,B,C,D
		104	LYH20626-003C	UPPER ASSY(G),E,F,G,H
		106	LY33332-001A	MIC COVER
		108	LY44087-001A	MECHA BKT ASSY
		109	LY33354-001A	SHIELD PLATE
		110	LY43083-001A	BKT(PRE-REC)
		111	LY33333-001A	COVER(DV)
		112	LY33386-001C	HOLDER(DV/USB)
		113	LY21032-001E	TOP COVER
		114	LY33318-001A	BRACKET(TOP)
		115	LY30019-028A	SPECIAL SCREW,X3,MECHA-BKT
		116	QYSPSPT1414M	SCREW,BKTP/R-MEC
		117	LY30018-032A	SPECIAL SCREW,X2,SH.P/R-M.B
		118	LY30018-032A	SPECIAL SCREW,X3,BKT(M)-ARM
		119	LY30018-0K2A	SPECIAL SCREW,BKT(M)-BAS
		120	LY30018-0D8A	SPECIAL SCREW,UP-C.OPE(U
		121	LY30018-048A	SPECIAL SCREW,UP-C.OPE(L
		122	LY30018-043B	SPECIAL SCREW,UP-BASE
		123	LY30018-006B	SPECIAL SCREW,X3,UP-ARM
		124	LY30018-0E4A	SPECIAL SCREW,X2,COV(D/U)-F
		125	LY30018-0B7A	SPECIAL SCREW,UP-FR
		126	LY30018-043B	SPECIAL SCREW,FR-ARM
		127	LY30018-0E4A	SPECIAL SCREW,BKT(T)-ARM
		128	LY30018-043B	SPECIAL SCREW,BKT(T-FR(U
		129	LY30018-043B	SPECIAL SCREW,X2,BKT(T-BK(F
		130	LY30018-006B	SPECIAL SCREW,TOP-BKT(T)
		131	LY30018-0B7A	SPECIAL SCREW,X2,TOP-CO(T/U
		132	LY30018-0B7A	SPECIAL SCREW,UP-VF
		133	LY30018-0B7A	SPECIAL SCREW,TOP-VF
		134	QYSPSPT1730R	SCREW,FR-ARM
		183	LY33383-001A	COVER(ADJ)
		184	LY41393-005A	COVER(JIG CONN)
		185	LY32884-002A	DUMMY BATTERY
		186	LY32001-002A	LABEL(HOUSING)
		187	LY40699-002A	LABEL(PUSH)
		188	LY30018-043B	SPECIAL SCREW,X2,COV(ADJ-AR
		189	LY30018-026A	SPECIAL SCREW,COV(JIG-UP
		191	———	TAG

OP BLOCK ASSEMBLY<M2>

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION
		251	LYH20646-001A	CCD BASE ASS'Y
		252	LY33085-002C	OP BLOCK ASSY
		252A	PTY33085-006	AUTO IRIS UNIT
		252B	LY30723-001B	ZOOM MOTOR UNIT
		252C	LY30724-001B	FOCUS MOTOR UNIT
		252D	PTY33085-001	SCREW,X7
		252E	PTY31727-116	SCREW,X2
		253	LY30018-0E7A	SPECIAL SCREW,X2
		254	LY44005-001A	SHEET
		255	LY44120-001A	OPTICAL LPF
		256	LY33288-001A	SPACER

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION

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LOWER ASSEMBLY(G)<M2>

502	LY33305-003C	SIDE COVER ASSY
504	LY21028-001C	ARM ASSY
505	LY33316-001C	CASS.COVER ASSY
506	LY21031-001C	CAMERA OPE UNIT
507	LY32575-002A	BATT.TERNIMAL
508	QAL0467-001	FPC,BATT.FPC
509	WJT0104-001A	E-CARD WIRE,SIDE-SD
510	LY44140-001A	BKT(S.COVER/VF)
511	LY33439-001A	GRIP BELT
512	LY30018-0A2A	SPECIAL SCREW,X2,C.OPE-ARM
513	LY30018-0A2A	SPECIAL SCREW,X2,BATT-ARM
514	LY30018-063A	SPECIAL SCREW,X2,S.COV-S.PW
515	LY30018-0A2A	SPECIAL SCREW,X4,COVER-ARM
516	LY44213-001A	SHEET(BAT.FPC)
517	LY44216-001A	LABEL(C.COVER)
518	LY30030-059B	SPACER(A),X2
519	LY33587-001A	HOLDER(G.OUTER)
520	LY30030-0P8A	SPACER(A)
521	LY30018-021A	SPECIAL SCREW,SCOV-SPWBL
522	LY30018-060A	SPECIAL SCREW,HLDR-S.COV
523	LY33611-001A	CAP(GRIP BELT),E,F,G,H

LOWER ASSEMBLY(F)<M2>

552	LYH20620-027B	LOWER ASSY(G),A,B,C,D
552	LYH20620-003C	LOWER ASSY(G),E,F,G,H
553	LYH20621-027D	VF ASSY(G),A,B,C,D
553	LYH20621-003D	VF ASSY(G),E,F,G,H
555	LY33342-001A	BKT(OP)
556	WJT0113-001A	E-CARD WIRE,K185-SD
557	LY30018-032A	SPECIAL SCREW,SD-ARM
558	LY30018-019A	SPECIAL SCREW,OP-BKT(OP)
559	LY30018-006B	SPECIAL SCREW,X2,VF-BKT(VF)
560	LY30018-006B	SPECIAL SCREW,BKT(OP)-AR
561	LY30029-0P8A	SPACER(A),FOR OP,A,B,C,D
561	LY30030-0U2A	SPACER(A),FOR OP,E,F,G,H
562	LY33392-001A	MIC ASSY
563	LY30030-0L8A	SPACER(A),FOR OP
564	LY30030-0L9A	SPACER(A),FOR OP
565	LY30030-0M1A	SPACER(A),X2,FOR OP
566	LY30030-0N4A	SPACER(A),FOR MICWIR

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UPPER ASSEMBLY(G)<M2>

601	LYH20625-027B	MONITOR ASSY(G),A,B,C,D
601	LYH20625-003B	MONITOR ASSY(G),E,F,G,H
602	LY33319-001D	U.CASE ASSY
603	LY33580-001A	FRAME(UPPER)AY
604	LY33320-001B	MONI.LOCK ASSY
605	LY44136-001B	COVER(TOP/UPP)L
606	LY44137-001B	COVER(TOP/UPP)R
607	LY33322-002C	SUB OPE UNIT
609	QAS0132-002	SPEAKER
610	LY30018-043B	SPECIAL SCREW,UPPER-FRM
611	LY30018-068A	SPECIAL SCREW,X2,UPPER-HING
612	LY30018-043B	SPECIAL SCREW,X2,C(T/U)-HIN
613	LY30018-043B	SPECIAL SCREW,X2,UPPER-M.LO
615	LY30030-0A9A	SPACER(A),SUB OP FPC
616	LY30018-032A	SPECIAL SCREW,X2,MFPC-UFRM
617	LY30018-0D8A	SPECIAL SCREW,X2,MONSW-UPPR
618	LY30030-0F4A	SPACER(A)
619	LY44237-001A	SHEET(SHIELD),A,B,C,D
619	LY44237-001B	SHEET(SHIELD),E,F,G,H
620	LY30030-0K9A	SPACER(A),UPP BSIDE,A,B,C,D
620	LY30030-0K9B	SPACER(A),UPP BSIDE,E,F,G,H
621	LY30030-0M9A	SPACER(A),UP-SPK1,A,B,C,D
621	LY30030-0V1A	SPACER(A),UP-SPK1,E,F,G,H
622	LY30030-0N1A	SPACER(A),UP-SPK2
623	LY30030-0N2A	SPACER(A),FOR MONIFP
624	LY30030-0N3A	SPACER(A),FOR MONIFP,A,B,C,D
624	LY30030-0V2A	SPACER(A),FOR MONIFP,E,F,G,H
625	LY44295-002A	STICKER
626	LY30017-022A	SPACER-B,X2,COVER T/U

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MONITOR ASSEMBLY(G)<M2>

802	LY21034-001C	MONITOR CASE(3)
803	LY33324-001C	M.COVER ASSY
804	LY43438-001A	I.SHEET(M.COVER,M.COV B.S
805	LY33325-001A	LCD BKT(3INCH)1
806	LY33326-001A	LCD BKT(3INCH)2
807	LY33327-001C	HINGE UNIT ASSY
808	NSW0122-001X	DETECT SWITCH
809	DN8797MS-X	IC
810	QLD0274-001	LCD MODULE
811	QLL0154-001	BACK LIGHT,A,B,C,D
811	QLL0154-002	BACK LIGHT,E,F,G,H
812	LY30018-070A	SPECIAL SCREW,BK(LCD-M.P
813	LY30018-070A	SPECIAL SCREW,M.CAS-HIN
814	LY30018-028A	SPECIAL SCREW,X2,HIN-M.COV
815	LY30018-0A2A	SPECIAL SCREW,X3,M.COV-BK(2
816	LY30030-0G1A	SPACER(A),X2,LCD-BKT1-V
817	LY30030-0G1A	SPACER(A),X2,LCD-BKT2
818	LY30030-0G2A	SPACER(A),X2,LCD-BKT1-H
819	LY30030-0M6A	SPACER(A),X2,MONI PWB
820	LY30030-0K7A	SPACER(A),BKT1-MCASE

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VF ASSEMBLY(G)<M2>

852	LY33384-001A	B.LIGHT CASE2
853	LY44100-001A	SHEET(DIFF)
854	LY44098-001A	SHEET(POLA),X2
855	LY33335-001B	LCD HOLDER2
856	QLD0193-002	LCD MODULE
857	LY44319-001A	CUSHION(LCD)3
858	LY21047-001C	FRAME(VF)2
859	LY33341-001A	SHEET HOLD
860	LY33382-002A	CASE(VF)ASSY,A,B,C,D
860	LY33382-002B	CASE(VF)ASSY,E,F,G,H
861	LY21046-002A	GUIDE(OUTER)
862	LY33345-001C	S.GUIDE ASSY
863	LY33432-001A	EYE CUP
864	LY44097-001A	SHEET(LENS)
865	LY33379-001B	V.ADJ.PLATE
866	LY44102-001A	S.PLATE
867	LY33378-001A	V.ADJ.KNOB

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

5.2 PARTS LIST

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
868	LY44103-001B	LENS HOLDER AY	
869	LY30002-055A	COMPRES. SPRING,X2	
870	LY44095-001B	STP RING	
871	LY44096-001A	GUIDE SCREW,X2	
872	WJT0111-001A	E-CARD WIRE	
874	LY30030-0A8A	SPACER(A)	
875	LY30018-0B7A	SPECIAL SCREW,X2	
876	LY44287-001A	EARTH SHEET	

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MECHANISM ASSEMBLY<M3>

900	YMA0029H	MECHA(A)ASSY	
900A	YMA0029D	MECHA(A)ASSY	
901	LY32870-001G	CASSETTEHOUSING ASSY	
902	YQ43893-8	MINI SCREW	(x3)
903	LYH30420-001A	UPPER BASE ASSY	
904	QYSPSPU1425M	SCREW	
905	YDV2102B	DRUM ASSY	
906	LY42820-001A	DAMP.SCREW ASSY	(x2)
907	LY42820-002A	DAMP.SCREW ASSY	
908	LY31538-001F	REEL DISK ASSY	
909	LY31538-002H	REEL DISK ASSY	
910	YQ44246	SLIT WASHER	
911	LY10372-001D	REEL COVER ASSY	
912	LY42120-002A	MINI SCREW	
913	LY41945-003A	MINI SCREW	(x2)
914	YQ44246	SLIT WASHER	
915	LY43725-001D	TENSION ARM ASSY	
916	LYH40269-001A	SLANT POLE ARM ASSY	
917	LY43731-001F	TU ARM ASSY	
918	LY31531-001D	SWING ARM ASSY	
919	YQ43893	MINI SCREW	
920	LYH30424-001A	SLIDE DECK FINAL ASSY	
921	YQ43893	MINI SCREW	(x2)
922	LY43023-001A	MINI SCREW	
924	LYH30419-001A	PAD ARM ASSY	
925	YQ44246	SLIT WASHER	
928	LYH40270-001A	TU BRAKE ASSY	
929	YQ44246	SLIT WASHER	
930	LY43684-001A	TENSION CONTROL LEVER ASSY	
931	LY32861-001A	CENTER GEAR	
932	LY31516-001F	PINCH ROLLER ARM FINAL ASSY	
933	YQ44246	SLIT WASHER	
934	LY43681-001A	TENSION CONTROL PLATE ASSY	
935	LY43687-001A	BRAKE CONTROL LEVER ASSY	
936	LYH30421-001A	MOTOR BRACKET ASSY	
936A	QAR0138-001	LOADING MOTOR	
936B	LY41940-001A	TAPPING SCREW	(x2)
937	YQ43893	MINI SCREW	(x3)
938	LYH30422-001A	GUIDE RAIL ASSY	
939	YQ43893	MINI SCREW	
940	YQ44246	SLIT WASHER	(x2)
941	LY32843-001A	SLIDE LEVER2 ASSY	
942	LY43690-001A	LOADING PLATE ASSY	
943	YQ44246	SLIT WASHER	
944	LY32858-001A	EJECT LEVER	
945	YQ44246	SLIT WASHER	
946	LYH40271-001A	BASE R ASSY	
947	YQ43893	MINI SCREW	
948	LY41945-001B	MINI SCREW	
949	LY43665-001A	MODE GEAR	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
950	QSW0876-003	ROTARY ENCODER	
951	YQ43893	MINI SCREW	(x2)
952	LY32860-001A	GEAR COVER ASSY	
953	YQ43893	MINI SCREW	(x2)
954	YQ43893-4	MINI SCREW	
955	LY43676-001A	MAIN CAM ASSY	
956	LY41941-001B	SLIDE ARM ASSY	
957	LY43678-001A	CONNECT GEAR 2	
958	LY41954-001C	SUB CAM ASSY	
959	LY42120-001A	MINI SCREW	
960	LY43692-001A	CONTROL ARM ASSY	
961	LY32859-001A	REEL GEAR 1	
962	LY31508-002B	DRUM BASE ASSY	
963	QYSPSPU1425M	SCREW	1.4mm x 2.5mm(x3)
964	QAR0142-001	CAPSTAN MOTOR	
965	YQ43893	MINI SCREW	
966	LY10367-001D	MAIN DECK ASSY	
976	YQ44246	SLIT WASHER	
977	YQ44246-6	SLIT WASHER	
978	LY42047-005A	WASHER	
979	LY43987-001B	SPACER	

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

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MAIN BOARD ASSEMBLY <01>

	PW1	YB10427B-06	MAIN PWB ASS'Y,01,A,B,C,D
	PW1	YB10427A-08	MAIN PWB ASS'Y,01,E,F,G,H
	IC1001	MN103S33NJH	IC(MICRO C ROM),MASK,A,B,C,D
	IC1001	MN103S33NJG	IC(MICRO C ROM),MASK,E,F,G,H
	IC1001 or	MN103SF33NY4JH	IC(MICRO C ROM),FLASH,A,B,C,D
	IC1001 or	MN103SF33NY4JG	IC(MICRO C ROM),FLASH,E,F,G,H
	IC1002	MB90097PFV149-X	IC(MICRO C ROM),MB90099
	IC1003	SN74AHC1G00K-X	IC
	IC1004	NJU7108F3-X	IC
	IC1005	25LC320X-I/ST-X	IC
	IC1006	RS5C314-X	IC
	IC1007	IC-PST3423U-X	IC
	IC1007 or	S-80823CNNB-X	IC
	IC1601	BD6637KS	IC,MDA BD6637
	IC1701	LM358DR2-X	IC,REELAMP5V
	IC1702	BA10393F-XE	IC,REELSMT
	IC1801	BA10358FVM-W	IC,IR AMP
	IC1851	RPM7138	IR DETECT UNIT,IR
	IC2101	BU7800FV-X	IC
	IC2201	AK4564VQ	IC
	IC3001	JCY0152	IC,JCY0152
	IC3002	BU2501FV-X	IC
	IC3005	JCY0136-X	IC,JCY0136-X
	IC3501	JCY0132	IC
	IC3502	SN74AHC1G04K-X	IC
	IC3701	BA7665FS-X	IC
	IC3701 or	BA7665AFS-X	IC
	IC3731	MM1504XN-X	IC,E,F,G,H
	IC3801	JCP8055	IC,A,B,C,D
	IC3801	JCP8045	IC(DIGITAL),E,F,G,H
	IC4201	HD49340NP-X	IC,CDS/AD QFN
	IC4202	MM1613AN-X	IC,REG 3V
	IC4301	JCY0200	IC,CAM DSP
	IC4302	R1160N151B-X	IC,REG 1.5V
	IC5501	JCY0185	IC,TG/VDR
	IC6001	S-80842CNNB-W	IC
	IC6002	S-817A33ANB-W	IC
	IC6003	R1224N102G-X	IC
	IC6101	FA3698F	IC,SW_REG IC
	IC8701	PIX-MC10	IC,100PIN0.5P
	IC8702	MT48LC1M16TG-7S	IC,SDRAM16M
	IC8702 or	MT48LC1M16TG-6S	IC
	Q1001	DTA114EE-X	DIGI TRANSISTOR
	Q1001 or	PDTA114EE-X	DIGI TRANSISTOR
	Q1001 or	RN2102-X	DIGI TRANSISTOR
	Q1002	UMC3N-W	DIGI TRANSISTOR
	Q1003	UMC3N-W	DIGI TRANSISTOR
	Q1004	UMC3N-W	DIGI TRANSISTOR
	Q1005	DTC143XE-X	DIGI TRANSISTOR
	Q1006	UMC3N-W	DIGI TRANSISTOR
	Q1007	2SC4617/QR/-X	TRANSISTOR
	Q1008	DTC124EE-X	DIGI TRANSISTOR
	Q1008 or	PDTC124EE-X	DIGI TRANSISTOR
	Q1009	2SJ347-X	MOS FET
	Q1010	DTC143EE-X	DIGI TRANSISTOR
	Q1601	UMC3N-W	DIGI TRANSISTOR,LD ON
	Q1801	RPM-22PB	PHOTO TRANSISTO
	Q2401	2SC4617/QR/-X	TRANSISTOR
	Q2403	2SC4617/QR/-X	TRANSISTOR
	Q2801	UMX1N-W	PAIR TRANSISTOR
	Q3001	2SC4617/RS/-X	TRANSISTOR
	Q3002	2SC4617/RS/-X	TRANSISTOR
	Q3701	UMT1N-W	PAIR TRANSISTOR
	Q3701 or	XP4401-W	TRANSISTOR
	Q3702	UMZ1N-W	PAIR TRANSISTOR
	Q3702 or	XP4601-W	TRANSISTOR
	Q3704	2SA1774/RS/-X	TRANSISTOR
	Q3705	UMT1N-W	PAIR TRANSISTOR
	Q3705 or	XP4401-W	TRANSISTOR
	Q3731	2SC4617/RS/-X	TRANSISTOR,E,F,G,H
	Q3731 or	2SD2216J/RS/-X	TRANSISTOR,E,F,G,H
	Q3732	DTC144EE-X	DIGI TRANSISTOR,E,F,G,H
	Q3732 or	UN9213J-X	DIGI TRANSISTOR,E,F,G,H
	Q3732 or	RN1104-X	DIGI TRANSISTOR,E,F,G,H
	Q3732 or	PDTC144EE-X	DIGI TRANSISTOR,E,F,G,H
	Q3733	UMZ1N-W	PAIR TRANSISTOR,E,F,G,H
	Q3733 or	XP4601-W	TRANSISTOR,E,F,G,H
	Q3734	2SC4617/RS/-X	TRANSISTOR,E,F,G,H
	Q3734 or	2SD2216J/RS/-X	TRANSISTOR,E,F,G,H
	Q3735	UMZ1N-W	PAIR TRANSISTOR,E,F,G,H
	Q3735 or	XP4601-W	TRANSISTOR,E,F,G,H
	Q6001	DTC144EE-X	DIGI TRANSISTOR
	Q6001 or	RN1104-X	DIGI TRANSISTOR
	Q6001 or	PDTC144EE-X	DIGI TRANSISTOR
	Q6001 or	UN9213J-X	DIGI TRANSISTOR
	Q6002	MCH6613-W	MOS FET
	Q6003	FML9-W	TRANSISTOR
	Q6201	QS6U24-W	MOS FET
	Q6202	2SA1577/RS/-X	TRANSISTOR
	Q6203	QS6U24-W	MOS FET
	Q6204	QS6U24-W	MOS FET
	Q6205	CPH3101-X	TRANSISTOR
	Q6206	DTC124TE-X	DIGI TRANSISTOR
	Q6206 or	UN9210J-X	DIGI TRANSISTOR
	Q6207	QS6U24-W	MOS FET
	Q6208	QS6U24-W	MOS FET
	Q6209	CPH3314-X	MOS FET
	Q6210	HN1C01FU/G/-X	PAIR TRANSISTOR
	Q6210 or	PUMX1-W	PAIR TRANSISTOR
	Q6210 or	UMX1N-W	PAIR TRANSISTOR
	Q6211	2SA1577/RS/-X	TRANSISTOR
	Q6213	HN1A01FU/G/-X	PAIR TRANSISTOR
	Q6213 or	PUMT1-W	PAIR TRANSISTOR
	Q6213 or	UMT1N-W	PAIR TRANSISTOR
	Q6214	2SC4617/RS/-X	TRANSISTOR
	Q6701	CPH3314-X	MOS FET
	D1001	DA221-X	SI DIODE
	D1602	DAP222-X	SI DIODE,LD OUT
	D1602 or	MA132WA-X	SI DIODE
	D1603	DAP222-X	SI DIODE,LD ON
	D1603 or	MA132WA-X	SI DIODE
	D1604	DAP222-X	SI DIODE,C.ERR-3V
	D1604 or	MA132WA-X	SI DIODE
	D1801	SML-711UW-X	LED,TALLY
	D2807	RSA6.1J4-W	SI DIODE
	D3001	EC2C01C-X	VARI CAP DIODE
	D3002	EC2C01C-X	VARI CAP DIODE
	D3003	EC2C01C-X	VARI CAP DIODE
	D3004	MA2Z720-X	SB DIODE
	D5501	1SS355-X	SI DIODE
⚠	D6001	RB706D-40-X	SB DIODE
⚠	D6002	RB715F-X	SB DIODE

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
D6201	RB480Y-W	SB DIODE	
D6203	RB480Y-W	SB DIODE	
D6701	EP10HY03-X	SB DIODE	
D6702	EP10HY03-X	SB DIODE	
R1001	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1003	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1006	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1007	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1010	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1013	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1014	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1015	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1016	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1017	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1018	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R1019	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1020	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1021	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1022	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1023	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1024	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1027	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1030	NRSA6AJ-753W	MG RESISTOR	75kΩ,1/16W
R1031	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1032	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1033	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1034	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1035	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1039	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R1043	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1044	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1045	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1046	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1047	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1049	NRSA6AJ-623W	MG RESISTOR	62kΩ,1/16W
R1050	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1051	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1052	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1053	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1055	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1056	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1057	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1060	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R1061	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R1062	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R1063	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1064	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1065	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R1066	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1067	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R1068	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1069	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1070	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1071	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R1072	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1074	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1075	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1076	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R1077	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1078	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R1079	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1080	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1082	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1083	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1084	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1086	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1087	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1088	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1089	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1090	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1094	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1095	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1096	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1097	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
R1099	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1614	NRZ0072-R330X	MG RESISTOR	0.33Ω,1/4WF
R1616	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
R1617	NRZ0072-R330X	MG RESISTOR	0.33Ω,1/4WF
R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1624	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
R1625	NRSA6AD-361W	MG RESISTOR	360Ω,1/16W
R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1635	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1636	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1638	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1639	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1640	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1641	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1642	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1648	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1701	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1702	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1703	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1704	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1705	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1706	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1707	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1708	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1709	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1710	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1711	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1712	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1801	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1802	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1803	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R1804	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1805	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1806	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1807	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1808	NRSA6AJ-302W	MG RESISTOR	3kΩ,1/16W
R1851	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2105	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2201	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2601	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2602	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2607	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2608	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2609	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2610	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R2613	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2614	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R2801	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2802	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2803	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2804	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2805	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2806	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2807	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2808	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2809	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2810	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2812	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2813	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2814	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3057	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3066	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3067	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3068	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3081	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3505	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3506	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3507	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3511	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3521	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3522	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3523	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3524	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3525	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3526	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3527	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3701	NRSA6AD-271W	MG RESISTOR	270Ω,1/16W
R3702	NRSA6AD-271W	MG RESISTOR	270Ω,1/16W
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3704	NRSA6AD-301W	MG RESISTOR	300Ω,1/16W
R3705	NRSA6AD-301W	MG RESISTOR	300Ω,1/16W
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3707	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3708	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3709	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3710	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3711	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3722	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R3724	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3725	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R3728	NRVA6AD-131W	CMF RESISTOR	130Ω,1/16W
		R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R3731	NRSA6AJ-472W	MG RESISTOR,E,F,G,H	4.7kΩ,1/16W
		R3732	NRSA6AJ-101W	MG RESISTOR,E,F,G,H	100Ω,1/16W
		R3733	NRSA6AD-561W	MG RESISTOR,E,F,G,H	560Ω,1/16W
		R3734	NRSA6AJ-822W	MG RESISTOR,E,F,G,H	8.2kΩ,1/16W
		R3735	NRSA6AD-182W	MG RESISTOR,E,F,G,H	1.8kΩ,1/16W
		R3736	NRSA6AJ-183W	MG RESISTOR,E,F,G,H	18kΩ,1/16W
		R3737	NRSA6AJ-183W	MG RESISTOR,E,F,G,H	18kΩ,1/16W
		R3738	NRSA6AJ-681W	MG RESISTOR,E,F,G,H	680Ω,1/16W
		R3739	NRSA6AJ-821W	MG RESISTOR,E,F,G,H	820Ω,1/16W
		R3740	NRSA6AJ-821W	MG RESISTOR,E,F,G,H	820Ω,1/16W
		R3741	NRSA6AJ-102W	MG RESISTOR,E,F,G,H	1kΩ,1/16W
		R3742	NRSA6AJ-104W	MG RESISTOR,E,F,G,H	100kΩ,1/16W
		R3743	NRSA6AJ-104W	MG RESISTOR,E,F,G,H	100kΩ,1/16W
		R3744	NRSA6AD-561W	MG RESISTOR,E,F,G,H	560Ω,1/16W
		R3745	NRSA6AD-152W	MG RESISTOR,E,F,G,H	1.5kΩ,1/16W
		R3746	NRSA6AJ-222W	MG RESISTOR,E,F,G,H	2.2kΩ,1/16W
		R3747	NRSA6AJ-102W	MG RESISTOR,E,F,G,H	1kΩ,1/16W
		R3748	NRSA6AJ-474W	MG RESISTOR,E,F,G,H	470kΩ,1/16W
		R3801	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
		R3802	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
		R3803	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
		R3804	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R3805	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
		R3807	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4201	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R4202	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R4206	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
		R4207	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
		R4301	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R4303	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4306	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4307	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R4308	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4319	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4321	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4326	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4330	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4331	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4332	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4334	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4342	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4345	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4346	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4348	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4349	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4350	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4351	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4352	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4353	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4354	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4355	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R4356	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R5503	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5504	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5505	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
		R5506	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
		R5507	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
		R5509	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R5511	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
		R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
		R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
	⚠	R6006	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
	⚠	R6007	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
		R6008	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
		R6009	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6010	NRSA6AD-513W	MG RESISTOR	51kΩ,1/16W
		R6012	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
		R6101	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6102	NRSA6AJ-751W	MG RESISTOR	750Ω,1/16W
		R6103	NRSA6AD-622W	MG RESISTOR	6.2kΩ,1/16W
		R6104	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
		R6105	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
		R6106	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
		R6107	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
		R6108	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R6109	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R6110	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R6111	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6112	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6113	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6201	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6202	NRSA6AD-223W	MG RESISTOR	22kΩ,1/16W
		R6203	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R6204	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6205	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R6206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R6207	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
		R6208	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6209	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6210	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6211	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
		R6212	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6213	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
		R6215	NRSA6AD-472W	MG RESISTOR	4.7kΩ,1/16W
		R6216	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R6217	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
		R6218	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6219	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
		R6220	NRSA6AD-302W	MG RESISTOR	3kΩ,1/16W
		R6221	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
		R6222	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
		R6223	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
		R6224	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R6225	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
		R6226	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
		R6227	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R6228	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6229	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R6231	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6232	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
R6233	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6234	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6235	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R6236	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6237	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6238	NRSA6AD-683W	MG RESISTOR	68kΩ,1/16W
R6241	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
R6242	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6243	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6244	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R6245	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω,1/2W
R6702	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6703	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R6704	NRSA6AD-823W	MG RESISTOR	82kΩ,1/16W
R6705	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R8701	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8702	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8703	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8704	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8705	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R8706	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R8707	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8708	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8709	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8710	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8711	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R8712	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R8713	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R8715	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8717	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8718	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8720	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8721	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8722	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R8723	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
RA1001	NRZ0034-473W	NET RESISTOR	
RA1002	NRZ0034-104W	NET RESISTOR	100kΩ
RA1003	NRZ0034-104W	NET RESISTOR	100kΩ
RA1004	NRZ0034-104W	NET RESISTOR	100kΩ
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA1006	NRZ0034-102W	NET RESISTOR	
RA1007	NRZ0034-102W	NET RESISTOR	
RA1008	NRZ0034-104W	NET RESISTOR	100kΩ
RA3001	NRZ0034-560W	NET RESISTOR	
RA3002	NRZ0034-560W	NET RESISTOR	
RA3003	NRZ0034-100W	NET RESISTOR	10Ω
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA3005	NRZ0040-0R0X	NET RESISTOR,3216	
RA4201	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4202	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4305	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4306	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4307	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4308	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
C1001	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C1002	NDCA1HJ-100W	C CAPACITOR	10pF,50V
C1004	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1005	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1007	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1008	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1009	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1010	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1011	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1012	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1013	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1014	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1015	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1019	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1020	NCBA1EK-682W	C CAPACITOR	0.0068μF,25V
C1021	NCBA1EK-682W	C CAPACITOR	0.0068μF,25V
C1022	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1024	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1025	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1029	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1030	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C1032	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1035	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1036	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1037	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1038	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1039	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1040	NDCA1HJ-100W	C CAPACITOR	10pF,50V
C1041	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1042	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1043	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1044	NDCA1HJ-470W	C CAPACITOR	47pF,50V
C1045	NDCA1HJ-470W	C CAPACITOR	47pF,50V
C1046	NCF31AZ-105X	C CAPACITOR	1μF,10V
C1047	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1048	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1049	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1050	NCFA1HZ-103W	C CAPACITOR	0.01μF,50V
C1051	NCB31CK-223X	C CAPACITOR	0.022μF,16V
C1052	NCB31CK-223X	C CAPACITOR	0.022μF,16V
C1053	NCB31CK-223X	C CAPACITOR	0.022μF,16V
C1054	NCB31CK-223X	C CAPACITOR	0.022μF,16V
C1055	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C1064	NBE20JM-226X	TA E CAPACITOR	22μF,6.3V
C1601	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C1602	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C1603	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C1605	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C1606	NCBA1HK-152W	C CAPACITOR	0.0015μF,50V
C1607	NCBA1CK-473W	C CAPACITOR	0.047μF,16V
C1614	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C1618	NCBA1HK-222W	C CAPACITOR	0.0022μF,50V
C1619	NCBA1HK-222W	C CAPACITOR	0.0022μF,50V
C1620	NCBA1HK-222W	C CAPACITOR	0.0022μF,50V
C1621	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C1622	NCBA1CK-223W	C CAPACITOR	0.022μF,16V
C1623	NCBA1AK-473W	C CAPACITOR	0.047μF,10V
C1624	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C1625	NCSA1HJ-101W	C CAPACITOR	100pF,50V
C1626	NCBA1CK-822W	C CAPACITOR	0.0082μF,16V
C1627	NCBA1CK-822W	C CAPACITOR	0.0082μF,16V
C1628	NCB21CK-224X	C CAPACITOR	0.22μF,16V
C1629	NBP41DM-106X	TA E CAPACITOR	10μF,20V
C1630	NCB21CK-334X	C CAPACITOR	0.33μF,16V
C1632	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C1633	NCB21CK-474X	C CAPACITOR	0.47μF,16V

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1641	NCB21CK-474X	C CAPACITOR	0.47µF,16V
C1701	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1702	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1801	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C1802	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C1803	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1804	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1805	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1806	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1807	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2101	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2102	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2103	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2104	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2105	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C2106	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2107	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2108	NBE20JM-475X	TA E CAPACITOR	4.7µF,6.3V
C2201	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2202	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2203	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2204	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2209	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2210	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2212	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2215	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2217	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2218	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2223	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2224	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2401	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2402	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2403	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2404	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2405	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2406	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C2603	NCBA1CK-153W	C CAPACITOR	0.015µF,16V
C2604	NCBA1CK-153W	C CAPACITOR	0.015µF,16V
C2605	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2606	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2607	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2608	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2609	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2610	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2611	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2612	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2613	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2614	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2615	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2617	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C2618	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C2801	NCB31HK-472X	C CAPACITOR	0.0047µF,50V
C2802	NCB31HK-472X	C CAPACITOR	0.0047µF,50V
C3001	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3003	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3005	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3006	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3007	NBE20GM-476X	TA E CAPACITOR	47µF,4V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3008	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3009	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3011	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3012	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3013	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3015	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3016	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3017	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3020	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3021	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3022	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3023	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3025	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3026	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3027	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C3028	NDCA1EJ-271W	C CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3030	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3031	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3032	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3033	NDCA1HJ-220W	C CAPACITOR	22pF,50V
C3036	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C3037	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C3038	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3039	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3042	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3043	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3044	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3045	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3046	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3047	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3048	NCB31CK-473X	C CAPACITOR	0.047µF,16V
C3049	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C3050	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3055	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3059	NBE20GM-226X	TA E CAPACITOR	22µF,4V
C3060	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3064	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3066	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3067	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3069	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3501	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C3502	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C3503	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C3504	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C3505	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C3506	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3507	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3508	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3509	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3510	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3511	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3512	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C3513	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3514	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C3515	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C3516	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C3517	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3518	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3519	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C3520	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3521	NCBA1AK-104W	C CAPACITOR	0.1µF,10V

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3522	NCB20JM-475X	C CAPACITOR	4.7µF,6.3V
C3523	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3524	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3525	NCB20JM-475X	C CAPACITOR	4.7µF,6.3V
C3526	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3527	NDCA1EJ-221W	C CAPACITOR	220pF,25V
C3528	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3701	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3702	NDCA1HJ-560W	C CAPACITOR	56pF,50V
C3703	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3704	NDCA1HJ-680W	C CAPACITOR	68pF,50V
C3705	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3706	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3707	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3708	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3709	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3710	NBE20GM-226X	TA E CAPACITOR	22µF,4V
C3711	NBE20GM-226X	TA E CAPACITOR	22µF,4V
C3712	NBE40GM-107X	TA E CAPACITOR	100µF,4V
C3713	NBE20GM-107X	TA E CAPACITOR	100µF,4V
C3715	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3731	NCBA1CK-103W	C CAPACITOR,E,F,G,H	0.01µF,16V
C3732	NCBA1HK-102W	C CAPACITOR,E,F,G,H	0.001µF,50V
C3733	NDCA1HJ-3R0W	C CAPACITOR,E,F,G,H	3pF,50V
C3734	NDCA1HJ-5R0W	C CAPACITOR,E,F,G,H	5pF,50V
C3735	NDCA1HJ-330W	C CAPACITOR,E,F,G,H	33pF,50V
C3736	NCBA1HK-102W	C CAPACITOR,E,F,G,H	0.001µF,50V
C3738	NCBA1CK-103W	C CAPACITOR,E,F,G,H	0.01µF,16V
C3739	NCBA1CK-103W	C CAPACITOR,E,F,G,H	0.01µF,16V
C3740	NCB30JK-105X	C CAPACITOR,E,F,G,H	1µF,6.3V
C3741	NCB30JK-105X	C CAPACITOR,E,F,G,H	1µF,6.3V
C3742	NCBA1AK-104W	C CAPACITOR,E,F,G,H	0.1µF,10V
C3743	NDCA1HJ-3R0W	C CAPACITOR,E,F,G,H	3pF,50V
C3744	NDCA1HJ-5R0W	C CAPACITOR,E,F,G,H	5pF,50V
C3745	NDCA1HJ-330W	C CAPACITOR,E,F,G,H	33pF,50V
C3746	NCB20JM-475X	C CAPACITOR,E,F,G,H	4.7µF,6.3V
C3747	NCBA1CK-103W	C CAPACITOR,E,F,G,H	0.01µF,16V
C3801	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3802	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3803	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3804	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C3805	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3806	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3807	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3808	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3809	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C3810	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C3811	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C3812	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3813	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C3814	NCBA1CK-103W	C CAPACITOR,E,F,G,H	0.01µF,16V
C3815	NCBA1AK-104W	C CAPACITOR,E,F,G,H	0.1µF,10V
C3816	NCBA1AK-104W	C CAPACITOR,E,F,G,H	0.1µF,10V
C3817	NCBA1AK-104W	C CAPACITOR,E,F,G,H	0.1µF,10V
C3818	NCBA1AK-104W	C CAPACITOR,E,F,G,H	0.1µF,10V
C3819	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4202	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4203	NCB21AK-105X	C CAPACITOR	1µF,10V
C4204	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4205	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4206	NCB21CK-105X	C CAPACITOR	1µF,16V
C4207	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4208	NCB30JK-105X	C CAPACITOR	1µF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4209	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4210	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4212	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4217	NCB21AK-105X	C CAPACITOR	1µF,10V
C4301	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4302	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4303	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4304	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4305	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4306	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4307	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4308	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4309	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4310	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4311	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4312	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4313	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C4314	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4315	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4316	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4317	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5501	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5503	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5504	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5506	NBE40GM-476X	TA E CAPACITOR	47µF,4.0V
C5507	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5508	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5509	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5510	NBP21VM-105X	TA E CAPACITOR	1µF,35V
C5511	NBZ0003-475X	TA E CAPACITOR	4.7µF,20V
C5512	NBE21AM-106X	TA E CAPACITOR	10µF,10V
C5513	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C5514	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5515	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5516	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5517	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C5518	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5519	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6001	NCB31EK-103X	C CAPACITOR	0.01µF,25V
C6002	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C6003	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C6004	NCB21CK-105X	C CAPACITOR	1µF,16V
C6005	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C6008	NDCA1HJ-151W	C CAPACITOR	150pF,50V
C6101	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6103	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6104	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C6105	NCB21CK-105X	C CAPACITOR	1µF,16V
C6106	NBP41DM-106X	TA E CAPACITOR	10µF,20V
C6107	NCB21CK-105X	C CAPACITOR	1µF,16V
C6108	NCB21CK-105X	C CAPACITOR	1µF,16V
C6109	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6110	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6111	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6112	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6113	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6114	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6115	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6116	NCBA1AK-104W	C CAPACITOR	0.1µF,10V

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6117	NCBA1AK-333W	C CAPACITOR	0.033µF,10V
C6118	NCBA1HK-561W	C CAPACITOR	560pF,50V
C6119	NCBA1HK-272W	C CAPACITOR	0.0027µF,50V
C6120	NCBA1HK-561W	C CAPACITOR	560pF,50V
C6121	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6123	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6124	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6125	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C6126	NCB31CK-473X	C CAPACITOR	0.047µF,16V
C6127	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6128	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C6129	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6130	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6131	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6132	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6133	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6134	NCB21CK-105X	C CAPACITOR	1µF,16V
C6201	NCB21CK-105X	C CAPACITOR	1µF,16V
C6202	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6203	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6204	NCBA1HK-561W	C CAPACITOR	560pF,50V
C6205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6206	NCB21CK-105X	C CAPACITOR	1µF,16V
C6207	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6208	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C6209	NCB21CK-105X	C CAPACITOR	1µF,16V
C6210	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6211	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6212	NCB21CK-105X	C CAPACITOR	1µF,16V
C6213	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6214	NCBA1AK-683W	C CAPACITOR	0.068µF,10V
C6215	NCB21CK-105X	C CAPACITOR	1µF,16V
C6216	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6217	NCB21CK-105X	C CAPACITOR	1µF,16V
C6218	NCB21CK-105X	C CAPACITOR	1µF,16V
C6219	NCB11EK-105X	C CAPACITOR	1µF,25V
C6220	NCB21CK-105X	C CAPACITOR	1µF,16V
C6222	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6223	NCB21CK-105X	C CAPACITOR	1µF,16V
C6224	NCB11EK-105X	C CAPACITOR	1µF,25V
C6225	NCB21CK-105X	C CAPACITOR	1µF,16V
C6226	NCB21CK-105X	C CAPACITOR	1µF,16V
C6701	NCB21CK-105X	C CAPACITOR	1µF,16V
C6702	NCB21CK-105X	C CAPACITOR	1µF,16V
C8701	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8702	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8703	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8704	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8705	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8706	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8707	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8708	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8709	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8710	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8711	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8712	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8715	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8717	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
L1001	NQL402M-100X	INDUCTOR	10µH
L1002	NQL402M-100X	INDUCTOR	10µH
L1801	NQL402M-100X	INDUCTOR	10µH
L2101	NQL402M-100X	INDUCTOR	10µH
L2401	NQL402M-100X	INDUCTOR	10µH

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L2402	NQL402M-100X	INDUCTOR	10µH
L2601	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2602	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2603	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2801	NQR0251-004X	FERRITE BEADS	
L2802	NQR0251-004X	FERRITE BEADS	
L2803	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2804	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2805	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L3001	NQR0129-002X	FERRITE BEADS	
L3002	NQR0129-002X	FERRITE BEADS	
L3004	NQR0006-001X	FERRITE BEADS	
L3005	NQR0006-001X	FERRITE BEADS	
L3007	NQL085J-2R2X	INDUCTOR	2.2µH
L3008	NQL085J-120X	INDUCTOR	12µH
L3012	NQR0129-002X	FERRITE BEADS	
L3014	NQL38DK-100X	P COIL	10µH
L3015	NQR0006-001X	FERRITE BEADS	
L3501	NQR0129-002X	FERRITE BEADS	
L3502	NQL402M-100X	INDUCTOR	10µH
L3503	NQR0006-001X	FERRITE BEADS	
L3504	NQR0006-001X	FERRITE BEADS	
L3505	NQR0006-001X	FERRITE BEADS	
L3701	NQL38DK-100X	P COIL	10µH
L3731	NQL085J-6R8X	INDUCTOR	6.8µH
L3732	NQL085J-6R8X	INDUCTOR	6.8µH
L3801	NQR0129-002X	FERRITE BEADS	
L3802	NQR0129-002X	FERRITE BEADS	
L3803	NQR0006-001X	FERRITE BEADS	
L3804	NQL38DK-100X	P COIL	10µH
L4201	NQR0129-002X	FERRITE BEADS	
L4301	NQR0129-002X	FERRITE BEADS	
L4302	NQR0129-002X	FERRITE BEADS	
L5501	NQL315K-100X	INDUCTOR	10µH
L5502	NQR0129-002X	FERRITE BEADS	
L5503	NQR0129-002X	FERRITE BEADS	
L5504	NQR0129-002X	FERRITE BEADS	
L5505	NQL315K-100X	INDUCTOR	10µH
L5506	NQL315K-100X	INDUCTOR	10µH
L6001	NQL62EM-470X	INDUCTOR	47µH
L6101	NQLZ011-4R7X	INDUCTOR	4.7µH
L6102	NQLZ011-4R7X	INDUCTOR	4.7µH
L6201	NQLZ010-390X	INDUCTOR	39µH
L6202	NQLZ011-390X	INDUCTOR	39µH
L6203	NQLZ011-390X	INDUCTOR	39µH
L6204	NQL144K-220X	P COIL	22µH
L6205	NQL62EM-470X	INDUCTOR	47µH
L6206	NQL62EM-470X	INDUCTOR	47µH
L6207	NQLZ011-221X	INDUCTOR	220µH
L6701	NQL52EM-100X	INDUCTOR	10µH
L8701	NQR0129-002X	FERRITE BEADS	
L8702	NQR0129-002X	FERRITE BEADS	
J101	QNZ0518-002	D CONNECTOR,DV	
J102	QNZ0617-001	USB CONNECTOR,USB	
J103	NNZ0088-001X	M CONNECTOR,MULTI	
J104	QNA0035-001	DC JACK,DC JACK	
X1001	NAX0578-001X	CRYSTAL	20MHz
X1002	NAX0564-001X	CRYSTAL	
X3002	NAX0480-001X	CRYSTAL	24.576MHz
X5501	NAX0587-001X	CXO,54MHZ 5*3	
X8701	NAX0398-001X	C OSCILLATOR,48M	
SD1	LY33355-001A	SHIELD CASE(PR),PRE/REC	
BK1	LY44288-001A	BRACKET(MULTI),FOR J103	

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	OT1	LY30030-099A	SPACER(A)	
	OT2	LY30030-0C1A	SPACER(A)	
	OT3	LY30030-0A3A	SPACER(A)	
	OT4	LY30030-0A4A	SPACER(A)	
	OT5	LY30030-0A5A	SPACER(A)	
	OT6	LY44243-001A	SHEET(PWB),B TO B	
	OT7	LY30030-0F6A	SPACER(A)	
	OT8	LY30030-0M3A	SPACER(A),FOR J103	
	OT9	LY30030-0Q5A	SPACER(A),ONLY-01-01,A,B,C,D	
	CN101	QGF0530F1-17W	FPC CONNE,BATT.TERM.	
	CN102	QGF0532F1-20X	FFC/FPC CONNE,CCD	
	CN103	QGF0517F1-06X	FPC CONNE,LOAD.MOTOR	
	CN104	QGF0517F2-11X	FPC CONNE,DRUM MOTOR	
	CN105	QGB0509M3-30X	B TO B CONNE,JIG CN	
	CN106	QGF0517F2-16X	FPC CONNE,SENSOR	FPC(1-16)
	CN107	QGF0517F2-06X	FPC CONNE,R.ENC	
	CN108	QGF0517F2-18X	FPC CONNE,CAPSTAN	
	CN109	QGB0405L1-60X	B TO B CONNE,SD PWB	
	CN110	QGF0517F1-08X	FPC CONNE,HEAD	FFC/FPC(1-8)
	CN111	QGF0517F2-11X	FPC CONNE,CAMERA OPE	
	CN112	QGF0517F1-09X	FPC CONNE,SUB OPE	
	CN113	QGF0306F2-49X	FFC/FPC CONNE,MONI PWB	
	CN114	QGA1001F1-04X	W TO B CONNE,MIC	
⚠	F1601	NMFZ007-R20X-K	FUSE,UNREG	0.2A,50V
⚠	F1602	NMFZ007-R50X-K	FUSE,REG_3V	0.5A,50V
⚠	F6001	NMFZ007-R50X-K	FUSE	0.5A,50V
⚠	F6101	NMFZ007-2R0X-K	FUSE	2A,32V
⚠	F6201	NMFZ007-1R25X-K	FUSE	1.25A,32V
⚠	F6701	NMFZ007-1R25X-K	FUSE	1.25A,32V

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CCD BOARD ASSEMBLY <02>

PW1	YB10429A-02	CCD PWB ASS'Y,02	
Q5001	2SC3931/CD/-X	TRANSISTOR	
R5001	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R5002	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R5006	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C5001	NBZ0018-106X	TA E CAPACITOR	10μF,20V
C5002	NCF31EZ-104X	C CAPACITOR	0.1μF,25V
C5003	NBE21AM-106X	TA E CAPACITOR	10μF,10V
C5004	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5005	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5006	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5007	NCB31HK-222X	C CAPACITOR	0.0022μF,50V
L5001	NQL315K-100X	INDUCTOR	10μH
L5002	NQL315K-100X	INDUCTOR	10μH

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SD BOARD ASSEMBLY <03>

PW1	YB10431B-01	SD PWB ASS'Y,03	
IC4802	BA10358FVM-W	IC,HALL AMP+	
IC4803	BA10358FVM-W	IC,HALL AMP-	
IC4804	LM358DR2-X	IC,DRIVE AMP	
IC4851	UPD16879GS-X	IC,F/Z_MDA	
Q4801	2SC4655/BC/-X	TRANSISTOR,HALL DRIVE	
Q4806	2SC4617/QR/-X	TRANSISTOR,2SC4617/QR	
Q4851	2SC4617/RS/-X	TRANSISTOR	
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ,1/16
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4841	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4842	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4875	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
C4803	NBZ0015-106X	TA E CAPACITOR	10μF,6.3V
C4804	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4808	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C4809	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4810	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4811	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4812	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4813	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4814	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4815	NCB31HK-152X	C CAPACITOR	0.0015μF,50V
C4819	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C4851	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C4852	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4853	NBE21AM-335X	TA E CAPACITOR	3.3μF,10V
C4854	NBE21AM-106X	TA E CAPACITOR	10μF,10V
C4855	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C4858	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C4859	NCBA1CK-223W	C CAPACITOR	0.022μF,16V
C4860	NCBA1CK-223W	C CAPACITOR	0.022μF,16V

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	C4861	NCBA1CK-103W	C CAPACITOR 0.01µF,16V
	C4862	NCBA1CK-103W	C CAPACITOR 0.01µF,16V
	C4864	NBE20JM-106X	TA E CAPACITOR 10µF,6.3V
	C4865	NCBA1AK-104W	C CAPACITOR 0.1µF,10V
	L4802	NQL302N-100X	INDUCTOR 10µH
	L4851	NQR0129-002X	FERRITE BEADS
	L4852	NQL315K-100X	INDUCTOR 10µH
	L4853	NQL315K-100X	INDUCTOR 10µH
	OT1	LY30029-0K7A	SPACER(A)
	CN301	QGB0405M1-60X	B TO B CONNE,60P B/B
	CN302	QGF0530F1-24W	FPC CONNE,OP
	CN303	QGF0517F1-07X	FPC CONNE,SIDE OPE
	CN304	QGF0530F1-18W	FPC CONNE,VF

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SIDE OPE BOARD ASSEMBLY <04>

	PW1	YB20950B-01	SIDE OPE P.ASSY,04
	R401	NRSA6AJ-223W	MG RESISTOR 22kΩ,1/16W
	R402	NRSA6AJ-682W	MG RESISTOR 6.8kΩ,1/16W
	R403	NRSA6AJ-332W	MG RESISTOR 3.3kΩ,1/16W
	S401	NSW0198-001X	TACT SWITCH
	S402	NSW0198-001X	TACT SWITCH
	S403	NSW0198-001X	TACT SWITCH
	S406	NSW0120-002X	PUSH SWITCH,EJECT SW
	S407	NSW0201-001X	PUSH SWITCH,VF SW
⚠	BT401	QAB0040-001	LI BATTERY
	SD1	LY44286-001A	SHIELD(SIDE OPE
	CN401	QGF0517F1-07X	FPC CONNE,SD PWB

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MONITOR BOARD ASSEMBLY <06>

	PW1	YB20952B-03	MONITOR P ASS'Y,06
	IC7601	AN12550A	IC
	IC7602	LM358DR2-X	IC
	IC7603	———	IC
	IC7604	MM1385GN-X	IC
	IC7605	TA75S393F-X	IC
	IC7606	SN74AHC1G08K-X	IC
	Q7501	2SD1664/QR/-W	TRANSISTOR
	Q7502	2SD1664/QR/-W	TRANSISTOR
	Q7503	DTA144EE-X	DIGI TRANSISTOR
	Q7503 or	RN2104-X	DIGI TRANSISTOR
	Q7503 or	UN9113J-X	DIGI TRANSISTOR
	Q7504	2SC4617/QR/-X	TRANSISTOR
	Q7504 or	2SC4738/YG/-X	TRANSISTOR
	Q7601	2SC4617/QR/-X	TRANSISTOR
	Q7601 or	2SC4738/YG/-X	TRANSISTOR
	Q7602	2SA1774/QR/-X	TRANSISTOR
	Q7602 or	2SA1832/YG/-X	TRANSISTOR
	Q7603	2SC4617/QR/-X	TRANSISTOR
	Q7603 or	2SC4738/YG/-X	TRANSISTOR
	Q7604	2SA1774/QR/-X	TRANSISTOR
	Q7604 or	2SA1832/YG/-X	TRANSISTOR
	Q7605	UMD3N-W	DIGI TRANSISTOR
	Q7605 or	XP4311-W	DIGI TRANSISTOR
	Q7606	UMD3N-W	DIGI TRANSISTOR,3.0
	Q7607	DTA124EE-X	DIGI TRANSISTOR
	Q7608	DTC124EE-X	DIGI TRANSISTOR
	Q7609	2SD2654/VW/-X	TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	Q7610	2SC4617/QR/-X	TRANSISTOR
	D7601	RB480Y-W	SB DIODE
	D7602	MA111-X	SI DIODE
	R7501	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W
	R7502	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W
	R7503	NRSA63J-102X	MG RESISTOR 1kΩ,1/16W
	R7506	NRSA63J-473X	MG RESISTOR 47kΩ,1/16W
	R7507	NRSA63J-473X	MG RESISTOR 47kΩ,1/16W
	R7601	NRVA63D-622X	CMF RESISTOR 6.2kΩ,1/16W
	R7602	NRSA63J-153X	MG RESISTOR 15kΩ,1/16W
	R7604	NRVA63D-682X	CMF RESISTOR 6.8kΩ,1/16W
	R7605	NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W
	R7606	NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W
	R7607	NRSA63J-223X	MG RESISTOR 22kΩ,1/16W
	R7608	NRSA63J-223X	MG RESISTOR 22kΩ,1/16W
	R7609	NRSA02J-330X	MG RESISTOR 33Ω,1/10W
	R7610	NRSA02J-330X	MG RESISTOR 33Ω,1/10W
	R7611	NRSA63J-333X	MG RESISTOR 33kΩ,1/16W
	R7612	NRSA63J-335X	MG RESISTOR 3.3MΩ,1/16W
	R7614	NRVA63D-223X	CMF RESISTOR 22kΩ,1/16W
	R7615	NRVA63D-433X	CMF RESISTOR 43kΩ,1/16W
	R7616	NRVA63D-821X	CMF RESISTOR 820Ω,1/16W
	R7617	NRSA63J-153X	MG RESISTOR 15kΩ,1/16W
	R7619	NRSA63J-473X	MG RESISTOR 47kΩ,1/16W
	R7621	NRSA63J-332X	MG RESISTOR 3.3kΩ,1/16W
	R7623	NRSA63J-223X	MG RESISTOR 22kΩ,1/16W
	R7624	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W
	R7625	NRSA63J-223X	MG RESISTOR 22kΩ,1/16W
	R7626	NRSA63J-223X	MG RESISTOR 22kΩ,1/16W
	R7628	NRVA63D-333X	CMF RESISTOR 33kΩ,1/16W
	R7629	NRVA63D-153X	CMF RESISTOR 15kΩ,1/16W
	R7630	NRVA63D-222X	CMF RESISTOR 2.2kΩ,1/16W
	R7631	NRSA63J-153X	MG RESISTOR 15kΩ,1/16W
	R7632	NRSA63J-394X	MG RESISTOR 390kΩ,1/16W
	R7633	NRSA63J-103X	MG RESISTOR 10kΩ,1/16W
	R7634	NRSA63J-153X	MG RESISTOR 15kΩ,1/16W
	R7635	NRSA63J-393X	MG RESISTOR 39kΩ,1/16W
	R7636	NRSA63J-562X	MG RESISTOR 5.6kΩ,1/16W
	R7639	NRSA63J-473X	MG RESISTOR 47kΩ,1/16W
	R7640	NRSA63J-473X	MG RESISTOR 47kΩ,1/16W
	R7642	NRSA63J-0R0X	MG RESISTOR 0Ω,1/16W
	C7501	NCZ1016-100X	C CAPACITOR 10pF,2kV
	C7503	NFV41HJ-183X	MPPS CAPACITOR 0.018µF,50V
	C7504	NCB31EK-103X	C CAPACITOR 0.01µF,25V
	C7505	NBE20JM-106X	TA E CAPACITOR 10µF,6.3V
	C7510	NCB10JK-106X	C CAPACITOR 10µF,6.3V
	C7601	NBE90JM-106X	TA E CAPACITOR 10µF,6.3V
	C7602	NCB30JK-105X	C CAPACITOR 1µF,6.3V
	C7603	NCB30JK-105X	C CAPACITOR 1µF,6.3V
	C7604	NBE21AM-106X	TA E CAPACITOR 10µF,10V
	C7605	NCB31CK-104X	C CAPACITOR 0.1µF,16V
	C7606	NCB11CK-225X-A	C CAPACITOR 2.2µF,16V
	C7607	NCB11CK-225X-A	C CAPACITOR 2.2µF,16V
	C7608	NCB11CK-225X-A	C CAPACITOR 2.2µF,16V
	C7609	NCB31CK-104X	C CAPACITOR 0.1µF,16V
	C7610	NCB31CK-104X	C CAPACITOR 0.1µF,16V
	C7611	NCB11CK-225X	C CAPACITOR 2.2µF,16V
	C7612	NCB21CK-105X	C CAPACITOR 1µF,16V
	C7613	NBP41DM-106X	TA E CAPACITOR 10µF,20V
	C7614	NCB31CK-104X	C CAPACITOR 0.1µF,16V
	C7615	NCB31CK-104X	C CAPACITOR 0.1µF,16V
	C7616	NRSA02J-274X	MG RESISTOR 270kΩ,1/10W
	C7617	NCB31CK-104X	C CAPACITOR 0.1µF,16V

MODEL	MARK	MODEL	MARK
GR-DX45EK	A	GR-DX55EK	E
GR-DX45EX	B	GR-DX55EX	F
GR-DX45EY	C	GR-DX55EY	G
GR-DX45EZ	D	GR-DX55EZ	H

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		C7618	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7619	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7620	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C7621	NCB31HK-152X	C CAPACITOR	0.0015µF,50V
		C7622	NBE20JM-225X	TA E CAPACITOR	2.2µF,6.3V
		C7623	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7624	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
		C7625	NCB31HK-102X	C CAPACITOR	0.001µF,50V
		C7626	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7627	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7628	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7629	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
		C7631	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7632	NBP41EM-475X	TA E CAPACITOR	4.7µF,25V
		C7633	NCB21CK-105X	C CAPACITOR	1µF,16V
		C7634	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
		C7635	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7636	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7637	NCB11CK-105X	C CAPACITOR	1µF,16V
		C7638	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C7639	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
		C7640	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C7642	NCB30JK-105X	C CAPACITOR	1µF,6.3V
		C7643	NBP21CM-335X	TA E CAPACITOR	3.3µF,16V
		C7645	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7646	NCB31EK-103X	C CAPACITOR	0.01µF,25V
		C7647	NBE90JM-106X	TA E CAPACITOR	10µF,6.3V
		C7648	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7649	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7651	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		C7652	NCB31CK-104X	C CAPACITOR	0.1µF,16V
		L7501	NQL76EM-680X	INDUCTOR	68µH
		L7502	NQL76EM-220X	INDUCTOR	22µH
		L7601	NQL04DK-100X	INDUCTOR	10µH
		L7602	NQL04DK-100X	INDUCTOR	10µH
		L7603	NQL04DK-100X	INDUCTOR	10µH
		L7604	NQL04DK-100X	INDUCTOR	10µH
		L7605	NQL04DK-100X	INDUCTOR	10µH
		L7607	NQL04DK-100X	INDUCTOR	10µH
		L7608	NQL04DK-100X	INDUCTOR	10µH
	⚠	T7501	NQS0059-001X	SIGNAL SW TRANS	
		CN7601	QGF0306F2-45X	FFC/FPC CONNE,MAIN	
		CN7602	QGF0530F1-24W	FPC CONNE,LCD	
	⚠	F7501	NMFZ007-R40X-K	FUSE	0.4A,50V

****

VFBW BOARD ASSEMBLY <08>

PW1	YB20954A-02	VFBW P.ASS'Y,07 (BW VF)	
Q7001	PUMX1-W	PAIR TRANSISTOR	
D7001	E1S35AW0C501-X	LED	
R7001	NRVA63D-332X	CMF RESISTOR	3.3kΩ,1/16W
R7002	NRVA63D-561X	CMF RESISTOR	560Ω,1/16W
R7003	NRSA63J-820X	MG RESISTOR	82Ω,1/16W
R7004	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
C7001	NCF31CZ-104X	C CAPACITOR	0.1µF,16V
C7002	NCF31CZ-104X	C CAPACITOR	0.1µF,16V
C7003	NCF31CZ-104X	C CAPACITOR	0.1µF,16V
C7004	NCF31CZ-104X	C CAPACITOR	0.1µF,16V
CN7001	QGF0532F1-18X	FFC/FPC CONNE,SD	
CN7002	QGF0530F1-20W	FPC CONNE,LCD	

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION

1.2.2 Disassembly procedure

[FINAL ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[1]	FRONT ASS'Y(G)	1-2-2a	(S132), 2(S131), (S133), (S130), TOP COVER, MIC COVER, (S125), (S126), 2(S129), MAIN CN115(WR101a), HOLDER(DV/USB)	
[2]	UPPER ASS'Y(G)	1-2-2a	2(S124), COVER(DV), (S128), (S127), BRACKET(TOP), (S120), (S122), (S121), 3(S123), MAIN CN112(WR102a), MAIN CN113(WR102b)	
[3]	LOWER ASS'Y(F)	1-2-2a	MAIN CN114(WR103a), MIC ASS'Y, MAIN CN111(WR103b), MAIN CN102(WR103c), MAIN CN101(WR103d), MAIN CN109(WR103e), (S119), 3(S118)	
[4]	MAIN BOARD ASS'Y	1-2-2a	2(S117), SHIELD PLATE, MAIN CN106(WR104a), MAIN CN110(WR104b), MAIN CN107(WR104c), MAIN CN103(WR104d), (L104a), MAIN CN108(WR104e), MAIN CN104(WR104f)	
[5]	MECHANISM ASS'Y	1-2-2a	(S116), BKT(PRE-REC), 3(S115), MECHA BKT ASS'Y	

[WIRE CONNECTION]

WR No.	CONNECTION					
WR101a	FRONT ASS'Y(G)	STROBE	CN6501		MAIN	CN115
WR102a	UPPER ASS'Y(G)	SUB OPE UNIT	—		MAIN	CN112
WR102b	UPPER ASS'Y(G)	MONITOR	CN7601		MAIN	CN113
WR103a	—	MIC ASS'Y	—		MAIN	CN114
WR103b	LOWER ASS'Y(F)	C. OPE UNIT	—		MAIN	CN111
WR103c	LOWER ASS'Y(F)	CCD	—		MAIN	CN102
WR103d	LOWER ASS'Y(F)	BATT. TERM.	—		MAIN	CN101
WR103e	LOWER ASS'Y(F)	SD	CN301		MAIN	CN109
WR104a	MECHA ASS'Y	SENSOR	—		MAIN	CN106
WR104b	MECHA ASS'Y	HEAD	—		MAIN	CN110
WR104c	MECHA ASS'Y	R. ENCODER	—		MAIN	CN107
WR104d	MECHA ASS'Y	LOAD. MOTOR	—		MAIN	CN103
WR104e	MECHA ASS'Y	CAP. MOTOR	—		MAIN	CN108
WR104f	MECHA ASS'Y	DRUM MOTOR	—		MAIN	CN104

[LOWER ASS'Y(F), LOWER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	OP F. ASS'Y	1-2-2b	(S560), SD CN302(WR551a), (S558), BKT(OP)	
	(OP ASS'Y)		(SD551a), CCD BOARD ASS'Y	
[2]	VF ASS'Y(G)	1-2-2b	2(S559), SD CN304(WR552a)	
[3]	SD BOARD ASS'Y	1-2-2b	(S557), SD CN303(WR553a)	
[4]	SIDE OPE BOARD ASS'Y	1-2-2b	2(S512), CAMERA OPE UNIT, (S522), HOLDER(G.OUTER), 2(S514), BKT(S.COVER/VF), (S521), SIDE COVER ASS'Y, KNOB(DSC)	
[5]	CASS.COVER ASS'Y	1-2-2b	4(S515)	
	(ARM ASS'Y)		2(S513), BATT.TERM.	

[UPPER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	MONITOR ASS'Y(G)	1-2-2c	(S614)*, BKT(SPEAKER)*, (S617), 2(S616), 2(S611), (WR601a)	(*601a)
			2(S612), COVER(TOP/UPP)L, COVER(TOP/UPP)R	
[2]	U.CASE ASS'Y	1-2-2c	(S610), FRAME(UPPER) ASS'Y	

(*601a) Mark*: This part was deleted on the way of production.

[MONITOR ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	M.COVER ASS'Y	1-2-2d	3(S815), 2(S814)	
[2]	MONITOR BOARD ASS'Y	1-2-2d	(WR802a), MONITOR CN7601(WR802b), MONITOR CN7602(WR802c), 2(SD802a), (S812), 2(L802a)	
[3]	HINGE UNIT ASS'Y	1-2-2d	(S813)	
[4]	MONITOR CASE(3)	1-2-2d	BACK LIGHT, LCD BKT(3INCH)2, LCD MODULE, LCD BKT(3INCH)1	

[VF ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	VFBW BOARD ASS'Y	1-2-2e	FRAME(VF)2 VFBW CN7002(WR851a), 2(S875)	
[2]	GUIDE(OUTER) ASS'Y	1-2-2e	2(S871), (L852a), COVER(VF) ASS'Y	

<M2> FINAL ASS'Y

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(115)(116)(117)	0.07 ±0.01 N•m
OTHER SCREW	0.09 ±0.01 N•m

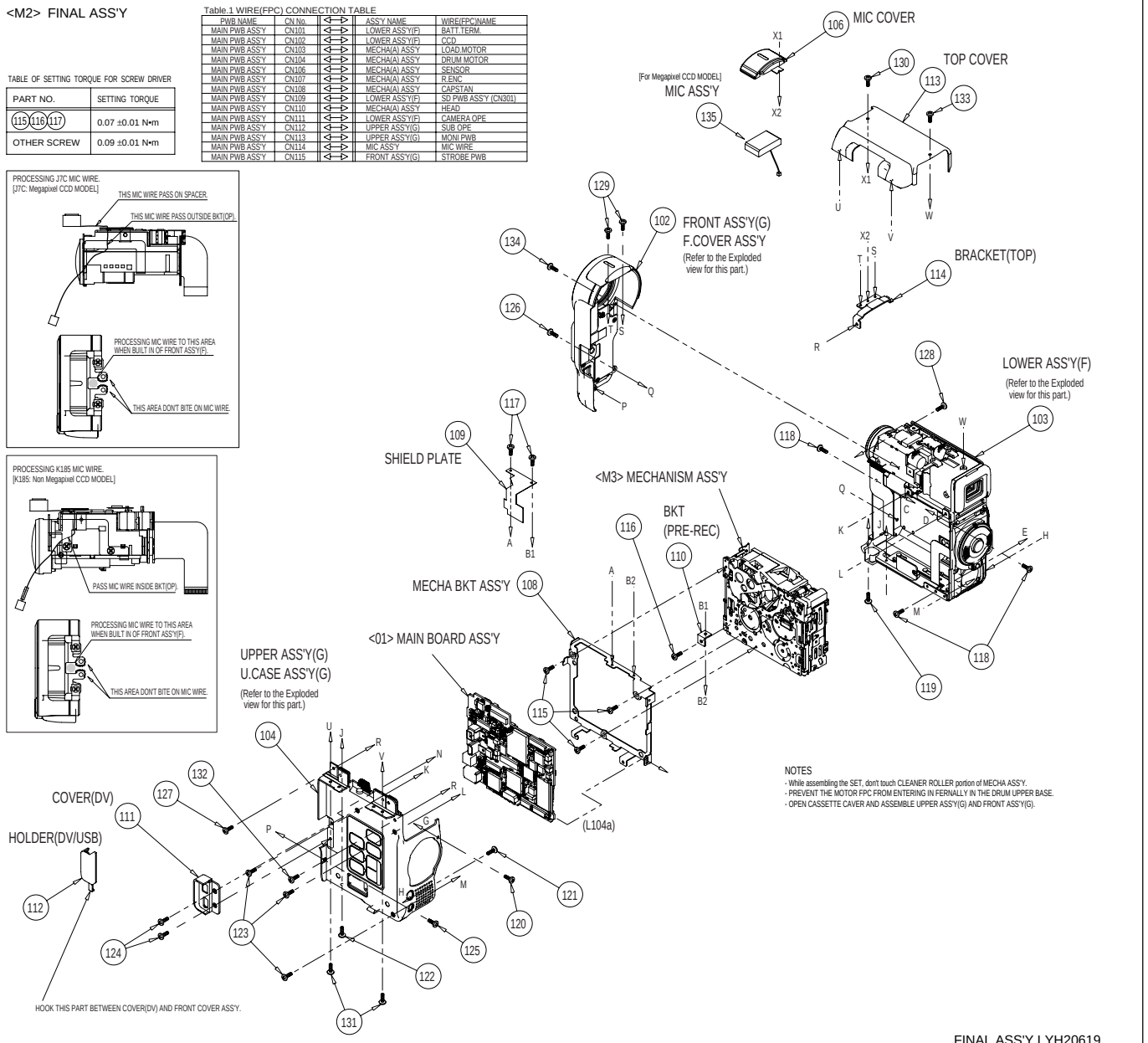
Table.1 WIRE(FPC) CONNECTION TABLE

PWB NAME	CN No.		ASS'Y NAME	WIRE(FPC)NAME
MAIN PWB ASS'Y	CN101	◁▷	LOWER ASS'Y(F)	BATT.TERM.
MAIN PWB ASS'Y	CN102	◁▷	LOWER ASS'Y(F)	CCD
MAIN PWB ASS'Y	CN103	◁▷	MECHA(A) ASS'Y	LOAD.MOTOR
MAIN PWB ASS'Y	CN104	◁▷	MECHA(A) ASS'Y	DRUM MOTOR
MAIN PWB ASS'Y	CN106	◁▷	MECHA(A) ASS'Y	SENSOR
MAIN PWB ASS'Y	CN107	◁▷	MECHA(A) ASS'Y	R.ENC
MAIN PWB ASS'Y	CN108	◁▷	MECHA(A) ASS'Y	CAPSTAN
MAIN PWB ASS'Y	CN109	◁▷	LOWER ASS'Y(F)	SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y	CN110	◁▷	MECHA(A) ASS'Y	HEAD
MAIN PWB ASS'Y	CN111	◁▷	LOWER ASS'Y(F)	CAMERA OPE
MAIN PWB ASS'Y	CN112	◁▷	UPPER ASS'Y(G)	SUB OPE
MAIN PWB ASS'Y	CN113	◁▷	UPPER ASS'Y(G)	MONI PWB
MAIN PWB ASS'Y	CN114	◁▷	MIC ASS'Y	MIC WIRE
MAIN PWB ASS'Y	CN115	◁▷	FRONT ASS'Y(G)	STROBE PWB

PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]

THIS MIC WIRE PASS ON SPACER.
THIS MIC WIRE PASS OUTSIDE BKT(DP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.

PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]



NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).

FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(188)(189)	0.069 ±0.007 N•m

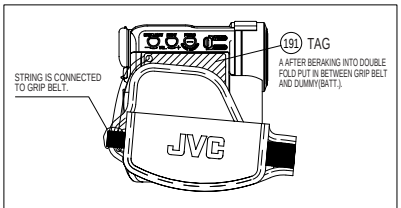


FIG. PROCESSING TAG

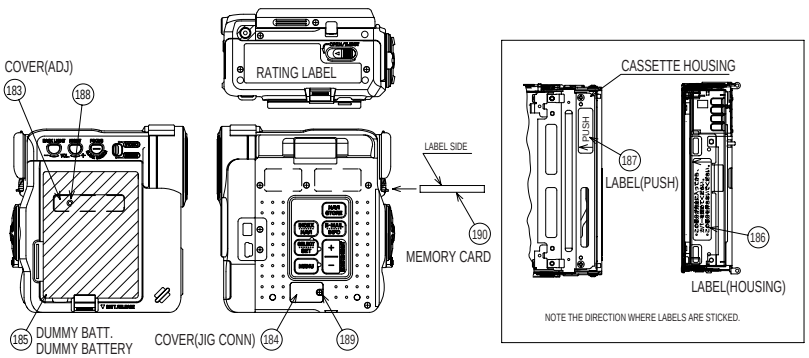


Fig. 1-2-2a FINAL ASS'Y

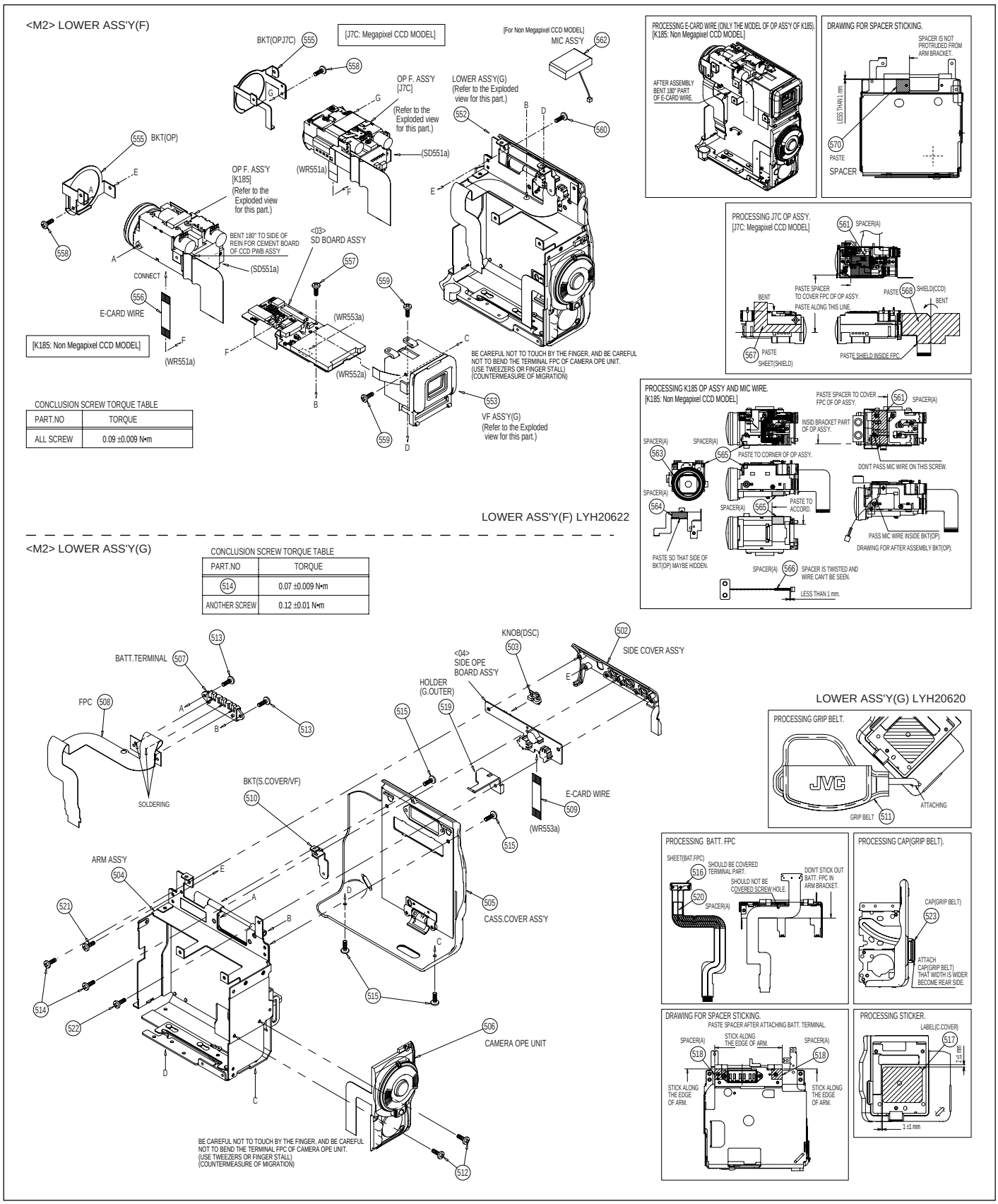
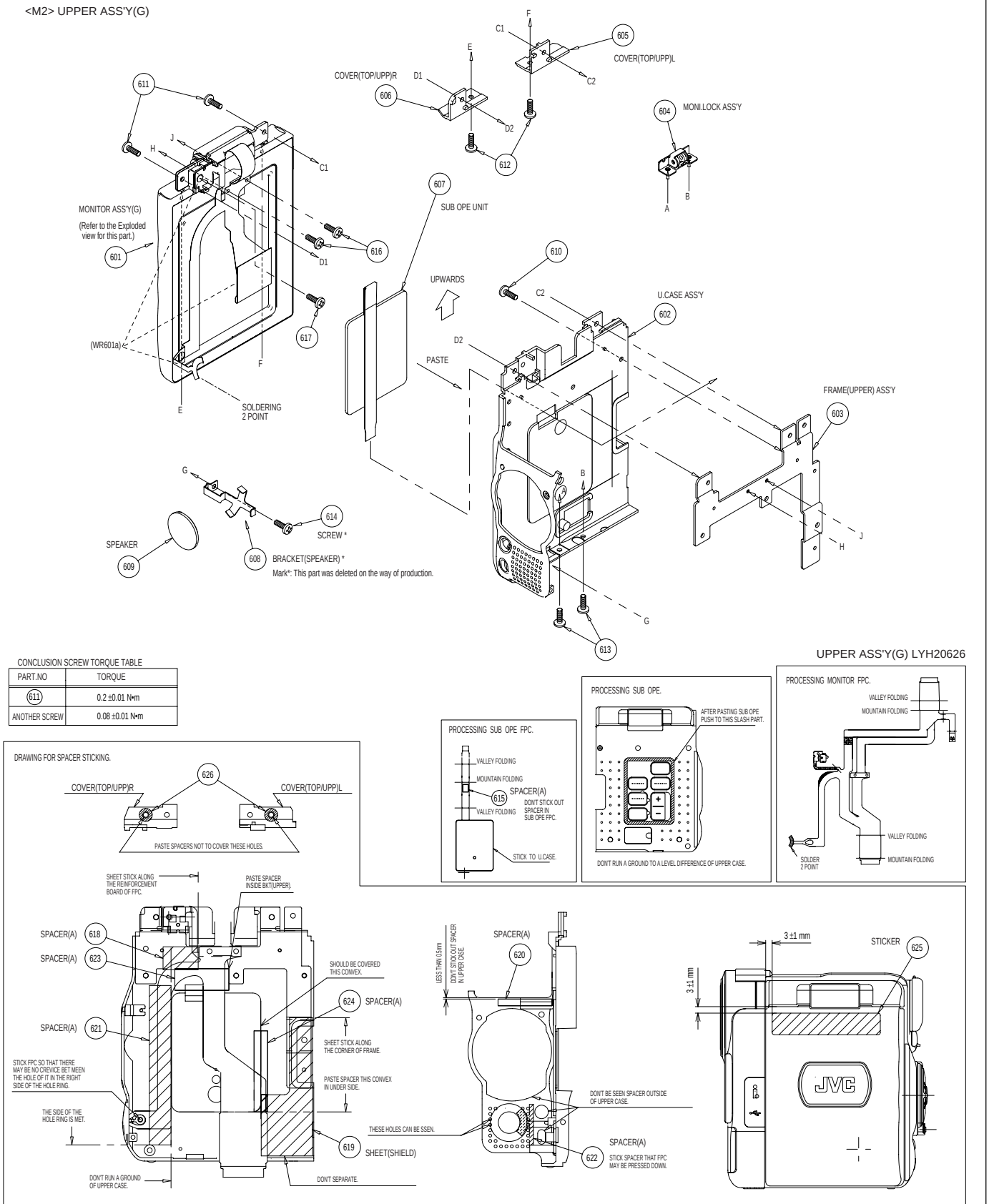


Fig. 1-2-2b LOWER ASS'Y(F), LOWER ASSY(G)

<M2> UPPER ASS'Y(G)



UPPER ASS'Y(G) LYH20626

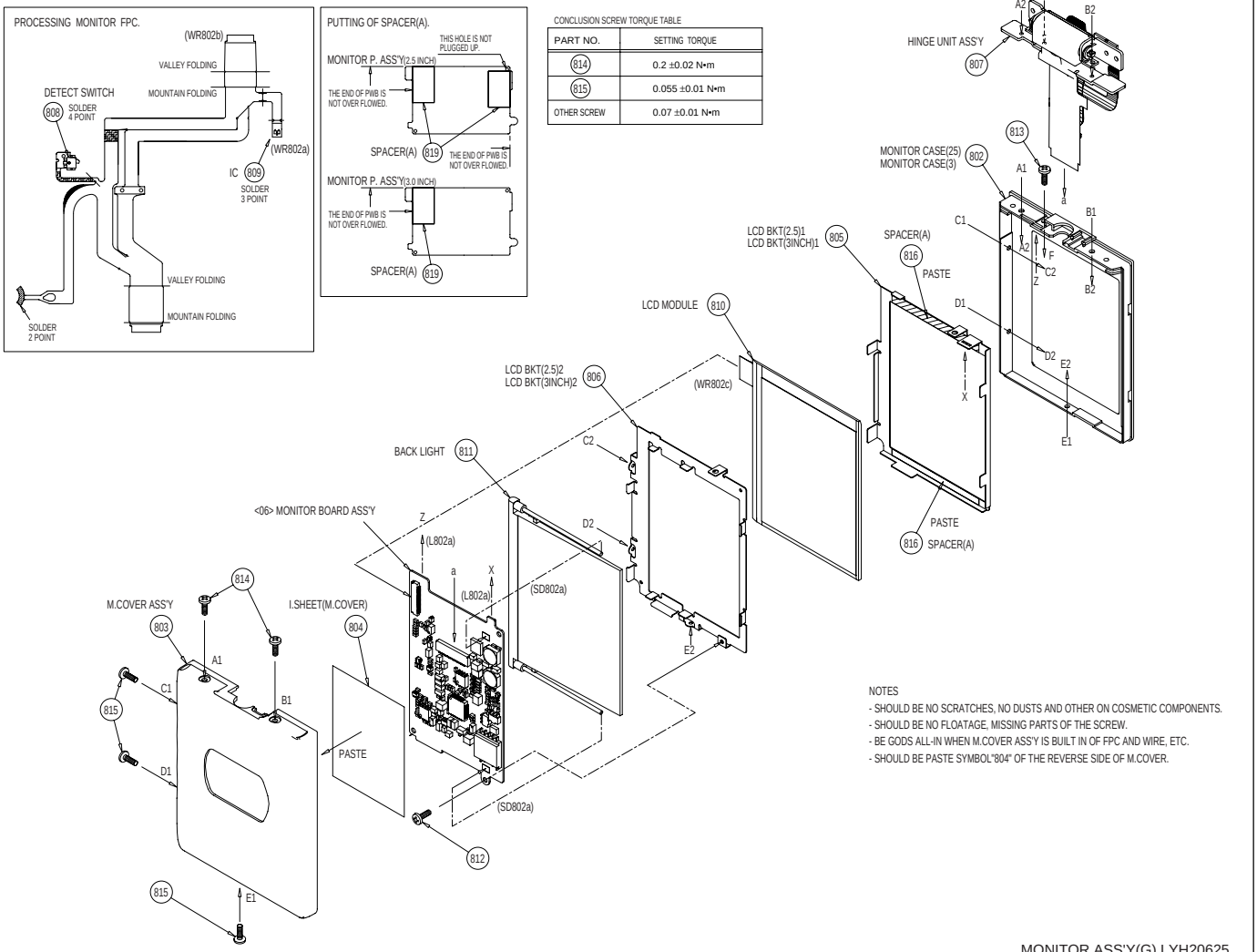
CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
(611)	0.2 ±0.01 N•m
ANOTHER SCREW	0.08 ±0.01 N•m

DRAWING FOR SPACER STICKING.
626
COVER(TOP/UPP)R
COVER(TOP/UPP)L
PASTE SPACERS NOT TO COVER THESE HOLES.
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SPACER(A) 618
SPACER(A) 623
SPACER(A) 621
SHOULD BE COVERED THIS CONVEX.
624 SPACER(A)
SHEET STICK ALONG THE CORNER OF FRAME.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
THE SIDE OF THE HOLE RING IS MET.
THESE HOLES CAN BE SSEN.
619 SHEET(SHIELD)
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
SPACER(A)
615
VALLEY FOLDING
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
VALLEY FOLDING
SOLDER 2 POINT
MOUNTAIN FOLDING
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE.
SPACER(A)
620
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
SPACER(A)
622
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
3 ±1 mm
3 ±1 mm
STICKER
625
JVC

Fig. 1-2-2c UPPER ASS'Y(G)

<M2> MONITOR ASS'Y(G)



MONITOR ASS'Y(G) LYH20625

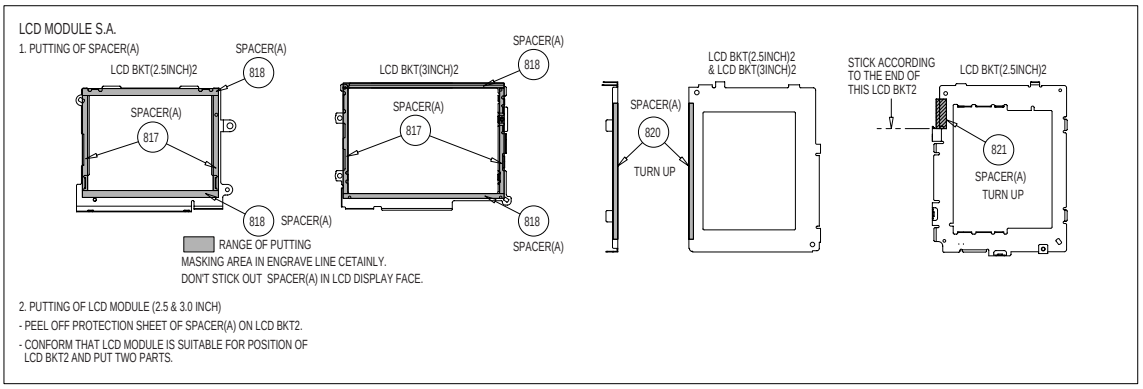

LCD MODULE S.A.
1. PUTTING OF SPACER(A)
SPACER(A) 818
LCD BKT(2.5INCH)2
SPACER(A) 817
818 SPACER(A)
LCD BKT(3INCH)2
SPACER(A) 818
SPACER(A) 817
818 SPACER(A)
RANGE OF PUTTING
MASKING AREA IN ENGRAVE LINE CETAINLY.
DON'T STICK OUT SPACER(A) IN LCD DISPLAY FACE.
LCD BKT(2.5INCH)2 & LCD BKT(3INCH)2
SPACER(A) 820
TURN UP
STICK ACCORDING TO THE END OF THIS LCD BKT2
LCD BKT(2.5INCH)2
821
SPACER(A) TURN UP
2. PUTTING OF LCD MODULE (2.5 & 3.0 INCH)
- PEEL OFF PROTECTION SHEET OF SPACER(A) ON LCD BKT2.
- CONFORM THAT LCD MODULE IS SUITABLE FOR POSITION OF LCD BKT2 AND PUT TWO PARTS.

Fig. 1-2-2d MONITOR ASS'Y(G)

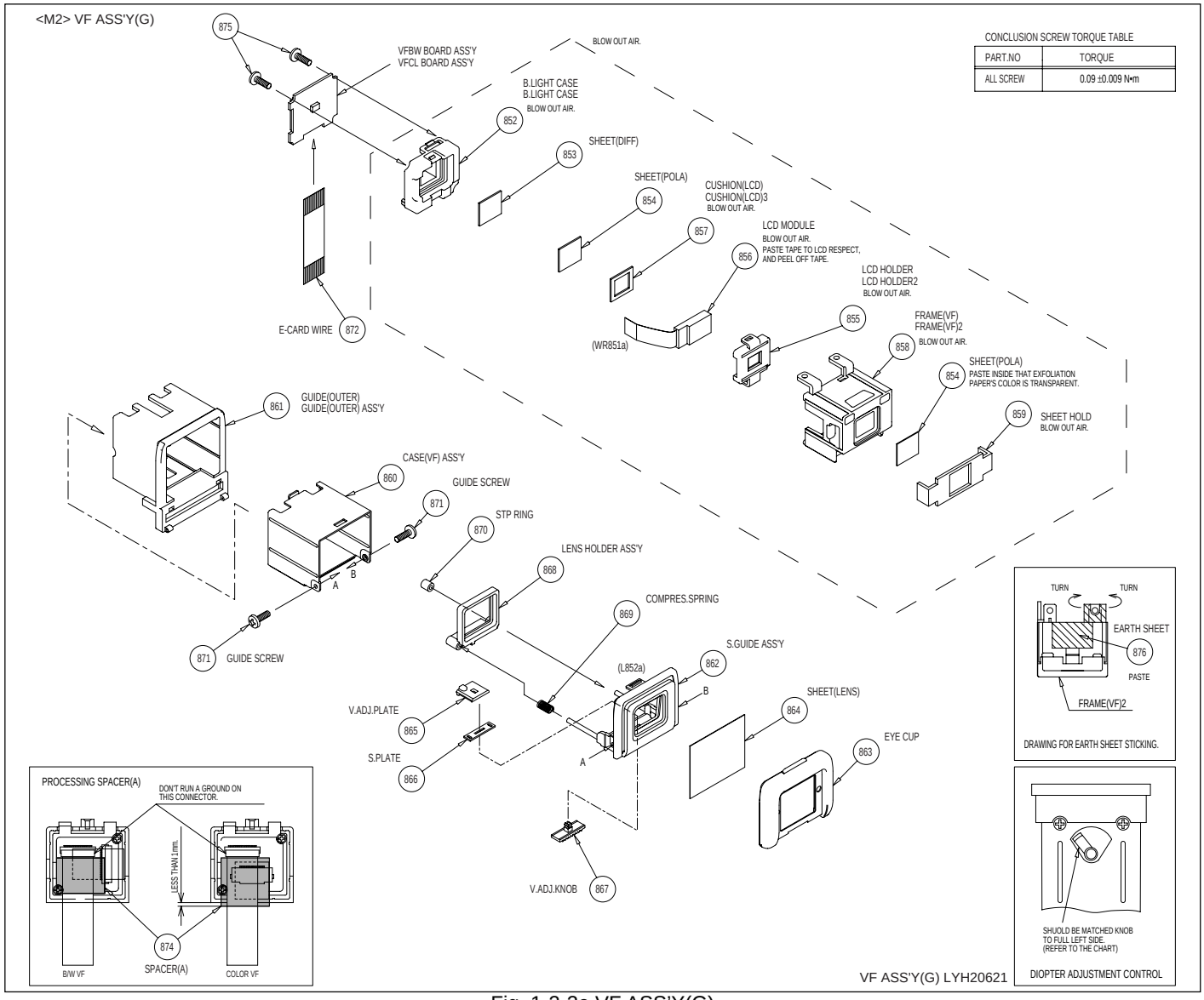


Fig. 1-2-2e VF ASS'Y(G)

1.3 Manually removing the cassette tape

The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

(1) Remove the Power Unit (battery, DC code, etc.) from the main unit.
(2) Open the Cassette cover.
(3) Attach a piece of PVC tape at the front of the Cassette housing.
    This helps prevent the tape from being damaged when the Cassette housing assembly is moved upward at the unloading end.
(4) Apply DC3V to the electrode on the top surface of the Loading motor assembly to set the Mechanism assembly to the eject mode.
    Unloading end is eject mode.
(5) If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Reel disk (SUP) from the backside of the Slide deck assembly.
(6) Peel off the PVC tape and take out the cassette tape from the Cassette housing.
    Make sure that grease or a similar substance is not attached to the surface of the tape.
    Similarly, also make sure that grease or a similar substance is not attached on the Mechanism assembly.

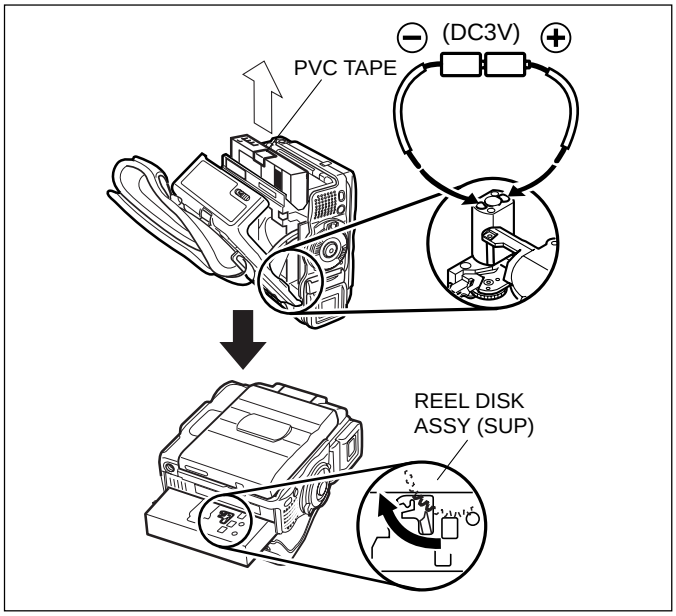
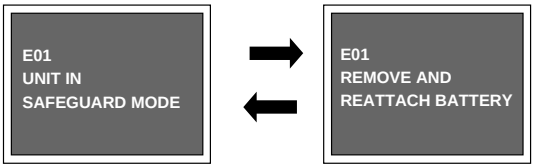


Fig. 1-3a

1.4 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the Electronic view finder).
In every error status, such the message as shown below alternately appear over and over.
In an emergency mode, all operations except turning on/off the Power switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLW/ STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	—	—	—
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/ REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Fig. 1-4a

SECTION 3
ADJUSTMENT

3.1 Before adjustment

3.1.1 Precaution

This model does not contain adjustment controls (VR).
General deck system, camera system and monitor system adjustment are not required. However, if circuit board mounting the EEPROM needs replacement, please use original EEPROM on to new board. Then adjustment are not required. And if parts such as the following need replacement, special computerized adjustment are required. Electrical adjustment with personal computer is setup and it adjusts using a service support system. Please contact to JVC Service for detail information.

- OP BLOCK ASSEMBLY
- EEPROM (IC1003 of MAIN board) [Megapixel CCD MODEL]
- EEPROM (IC1005 of MAIN board) [Non Megapixel CCD MODEL]

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

- In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
- Since connectors are fragile, carefully handle them in disconnecting and connecting.
- In the following work, use the patch cords as required. For details of the patch cords, see the "BOARD INTERCONNECTIONS" (CHARTS AND DIAGRAMS).

3.1.2 Required test equipments

- AC power adapter
- Color television or monitor
- Oscilloscope
  (dual-trace type, observable 100 MHz or higher frequency)
  It is recommended to use one observable 300 MHz or higher frequency.
- Digital voltmeter
- Frequency counter (with threshold level adjuster)
- Personal computer

3.1.3 Required adjustment tools

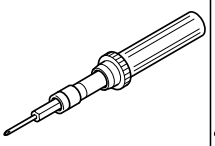
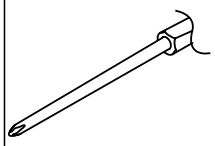
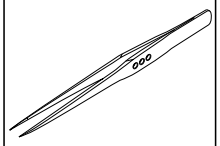
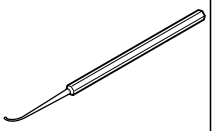
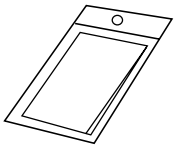
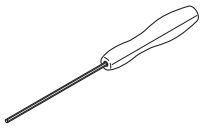
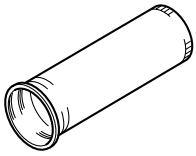
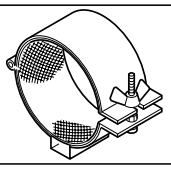
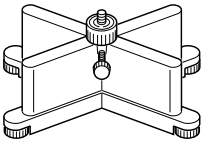
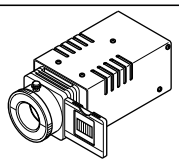
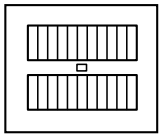
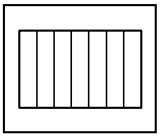
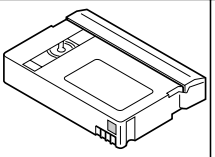
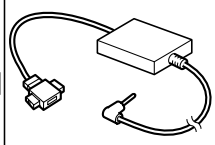
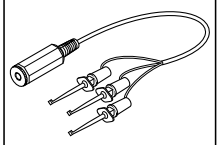
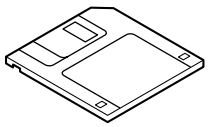
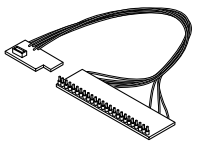
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	Guide driver (Hexagonal) D-770-1.27
		
INF adjustment lens YTU92001B	INF lens holder YTU94087	Camera stand YTU93079
		
Light box assembly YTU93096A	Gray scale chart YTU94133A	Color bar chart YTU94133C
		
Alignment tape MC-*	PC cable QAM0099-***	Communication cable YTU93107A
		
Service support system YTU94057-**	Jig connector cable YTU93106B	Extension connector YTU94145C-30
		

Table 3-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
- Guide driver (Hexagonal)
  To be used for mechanism compatibility adjustment.
- INF adjustment lens
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- INF lens holder
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Camera stand
  To be used together with the INF adjustment lens holder.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Light box assembly
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Gray scale chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Color bar chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Alignment tape
  To be used for mechanism compatibility adjustment.
  MC-1 [For NTSC model]
  MC-2 [For PAL model]
- PC cable
  To be used to connect the Videocamera and a personal computer with each other when a personal computer is used for adjustment.
  QAM0099-001 [For J* model]
  QAM0099-002 [For U* and K* models]
  QAM0099-003 [For E* models]
  QAM0099-005 [For A* models]
- Communication cable
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- Service support system
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- Jig connector cable
  Connected to CN for Jig of the circuit board and used for electrical adjustment, etc.
- Extension connector
  Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.

3.1.4 Jig connector cable connection

3.1.4.1 Preparation

The Jig connector cable (YTU93106B) has been provided for GR-DV2000 series. And it has been connected only 9 terminals for low cost, although it has 30 terminals.
Now it can be used another series camcorder, but all the terminals have to be connected by soldering wires. Refer to the Service Bulletin (No. YA-SB-10082), and connect all the terminals.

3.1.4.2 Connection

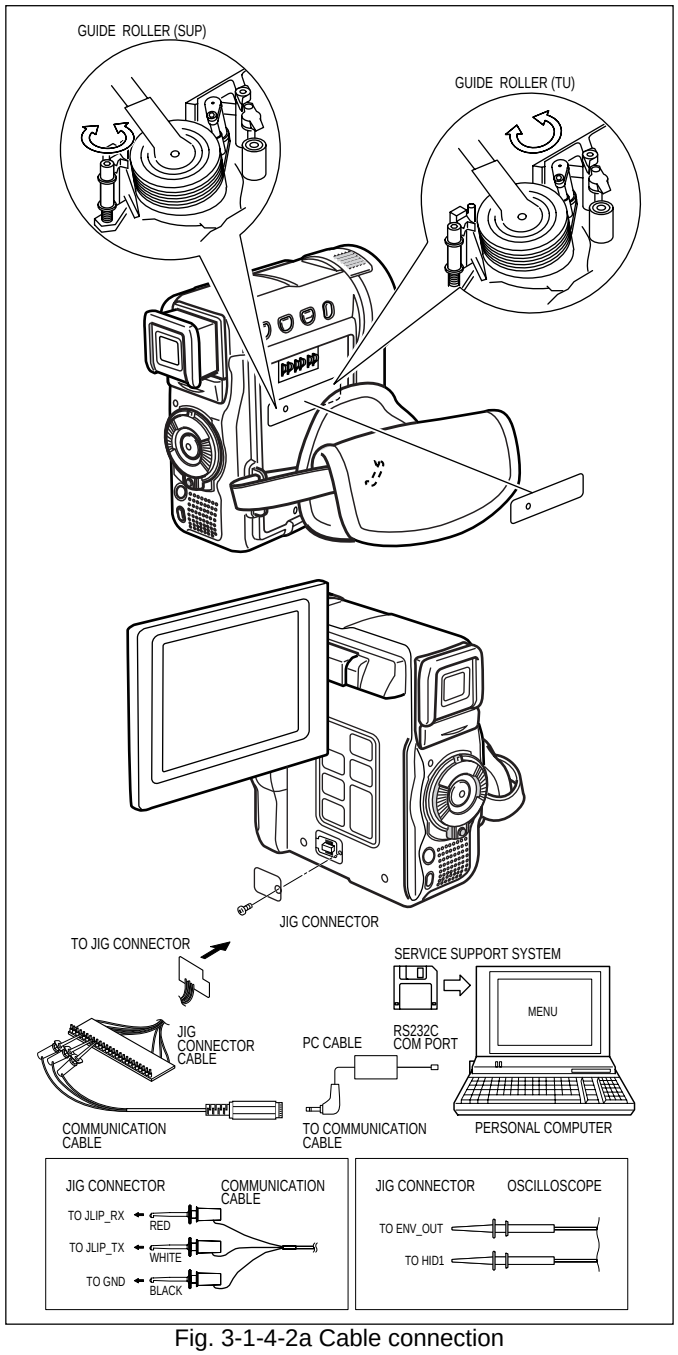


Fig. 3-1-4-2a Cable connection

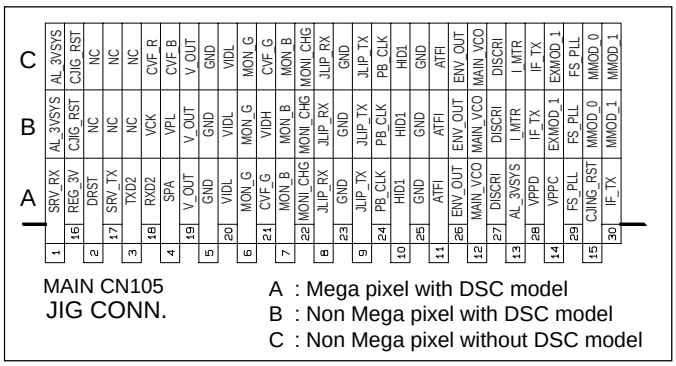


Fig. 3-1-4-2b Schematic diagram of Jig CN

3.2 Mechanism compatibility adjustment

3.2.1 Tape pattern check

(1) Play back the tape for compatibility adjustment.
(2) Apply the external trigger signal to HID1, to observe the waveform of the ENV_OUT.
(3) Set to the manual tracking mode (ATF OFF).
(4) Make sure that there is no significant level drop of the waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required.
(5) Reduce the waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller (supply side) to make the waveform linear.
If a drop in level is on the right side, likewise turn the guide roller (take-up side) to make it linear.
(6) Unload the cassette tape once, play back the tape again and confirm that the waveform is flat.
(7) Record at the recording tape, and play back the recorded signal.
(8) Confirm that the waveform is flat.

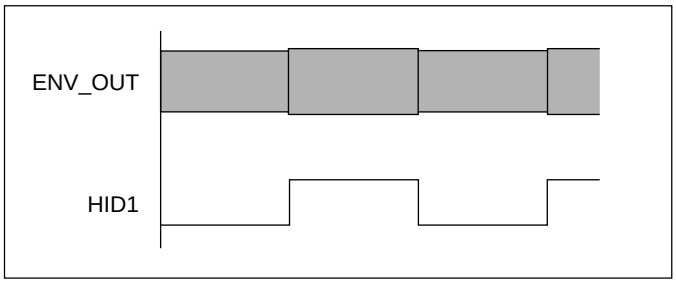


Fig. 3-2-1a

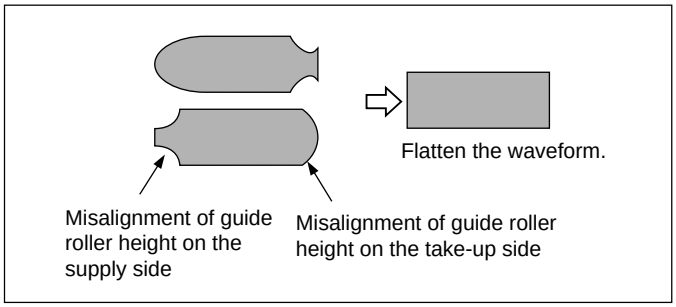

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 3-2-1b

3.3 Electrical adjustment

Adjustment is performed by using personal computer. Read README.TXT file to use the software for Service support system properly.
As for the connection of cables, see Fig. Cable connection.

JVC

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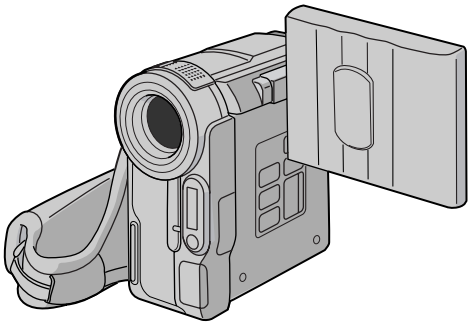
0306 VP

JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DX75EX, GR-DX75EY, GR-DX75EZ, GR-DX75EK, GR-DX95EX, GR-DX95EY, GR-DX95EZ, GR-DX95EK



Mini DV PAL

DSC DIGITAL STILL CAMERA

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DX75EX, GR-DX95EX, GR-DX100EX and GR-DX300EX.)*

General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 3.4 W
LCD monitor on, viewfinder off	: Approx. 4.6 W
Dimensions (W x H x D)	: 55 mm x 102 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 440 g (GR-DX300/DX100) (without grip belt)
	: Approx. 450 g (GR-DX95/DX75) (without grip belt)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C
Pickup	: 1/4" CCD (GR-DX300/DX100) 1/6" CCD (GR-DX95/DX75)
Lens	: F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens (GR-DX300/DX100) F1.6, f =2.7 mm to 43.2 mm, 16:1 power zoom lens (GR-DX95/DX75)
Filter diameter	: ø30.5 mm
LCD monitor	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-DX300/DX95) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DX100/DX75)
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/ Playback format	: Video: Digital component recording
	: Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP : 18.8 mm/s LP : 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP : 80 min. LP : 120 min.

Digital Still Camera Function

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	: 4 modes (1600 x 1200 pixels*, 1280 x 960 pixels*, 1024 x 768 pixels, 640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	: ☞ pg. 18.

* GR-DX300/DX100 only.

Connectors

S/AV	
S-Video output	: Y : 1 V (p-p), 75 Ω, analogue C : 0.29 V (p-p), 75 Ω, analogue
S-Video input	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analogue
Video output	: 1 V (p-p), 75 Ω, analogue
Video input	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analogue
Audio output	: 300 mV (rms), 1 kΩ, analogue, stereo
Audio input	: 300 mV (rms), 50 kΩ, analogue, stereo
Edit	: ø3.5 mm, 2-pole
DV	
Output	: 4-pin, IEEE 1394 compliant
Input	: 4-pin, IEEE 1394 compliant
USB	: 5-pin

AC Adapter

Power requirement	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DX75EK M3D327
GR-DX75EX M3D327
GR-DX75EY M3D327
GR-DX75EZ M3D327
GR-DX95EK M3D337
GR-DX95EX M3D337
GR-DX95EY M3D337
GR-DX95EZ M3D337

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No.86740
2003/06

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5. PARTS LIST 5-1

DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DX75EK, GR-DX75EX, GR-DX75EY, GR-DX75EZ, GR-DX95EK, GR-DX95EX, GR-DX95EY and GR-DX95EZ.

ITEM \ MODEL	GR-DX75EK	GR-DX75EX	GR-DX75EY	GR-DX75EZ	GR-DX95EK	GR-DX95EX	GR-DX95EY	GR-DX95EZ
LCD MONITOR	2.5 INCH	←	←	←	3.0 INCH	←	←	←
AC CORD	BS PLUG	CEE PLUG	←	←	BS PLUG	CEE PLUG	←	←

Notes: Mark ← is same as left.

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

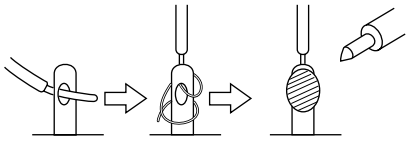


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

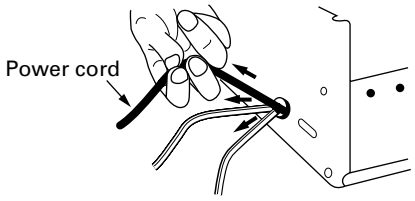


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

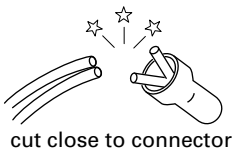


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

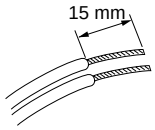


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

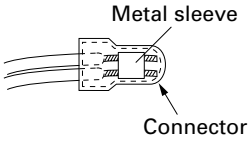


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

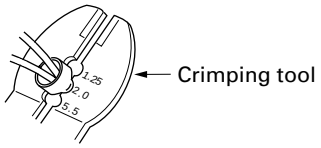


Fig.6

(5) Check the four points noted in Fig.7.

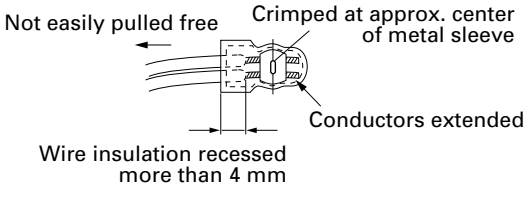

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

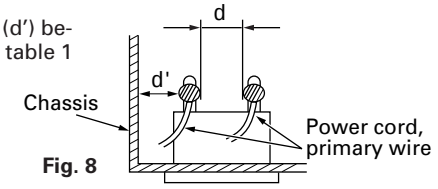


Fig. 8

4. Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

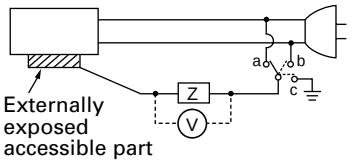


Fig. 9

5. Grounding (Class Ⅰ model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

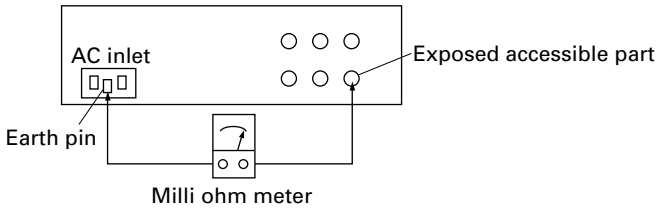


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 Before disassembling

1.1.1 Precaution

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.
- Be careful in removing or handling the part to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.078Nom (0.8kgfocm).
- The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

1.1.2 Disconnection of connectors (wires)

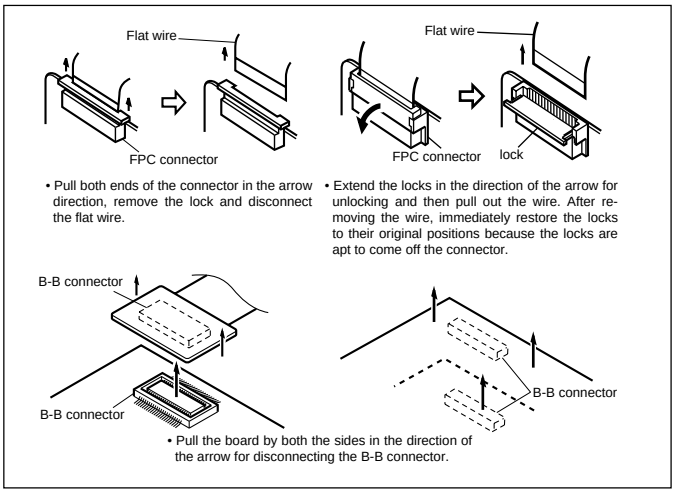

Flat wire
FPC connector
• Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Flat wire
FPC connector
lock
• Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B connector
B-B connector
B-B connector
• Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

Fig. 1-1-2a CONNECTOR

1.1.3 Required disassembling tools

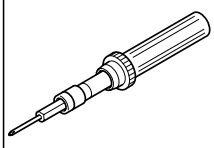
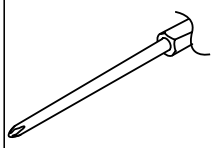
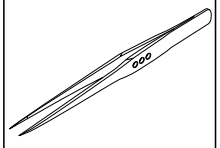
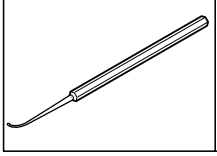
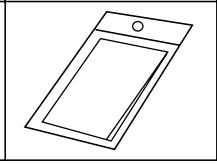
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	
		

Fig. 1-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.2 Removing the major parts

1.2.1 How to read the procedure table

This table shows the steps for disassembly of the major parts. Reverse these steps when re-assembling them.
<Example>

Step No.	Part Name	Fig. No.	Point	Note
[1]	Top cover, Bracket	1-3a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a), 2(S1c)	<Note 1a>
(*1)	(*2)	(*3)	(*4)	(*5)

(*1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
(*2) Part name to be removed or installed.
(*3) Fig. No. showing procedure or part location.
(*4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).
(*5) Adjustment information for installation

1.2.2 Disassembly procedure

[FINAL ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[1]	FRONT ASS'Y(G)	1-2-2a	(S132), 2(S131), (S133), (S130), TOP COVER, MIC COVER, (S125), (S126), 2(S129), MAIN CN115(WR101a), HOLDER(DV/USB)	
[2]	UPPER ASS'Y(G)	1-2-2a	2(S124), COVER(DV), (S128), (S127), BRACKET(TOP), (S120), (S122), (S121), 3(S123), MAIN CN112(WR102a), MAIN CN113(WR102b)	
[3]	LOWER ASS'Y(F)	1-2-2a	MAIN CN114(WR103a), MIC ASS'Y, MAIN CN111(WR103b), MAIN CN102(WR103c), MAIN CN101(WR103d), MAIN CN109(WR103e), (S119), 3(S118)	
[4]	MAIN BOARD ASS'Y	1-2-2a	2(S117), SHIELD PLATE, MAIN CN106(WR104a), MAIN CN110(WR104b), MAIN CN107(WR104c), MAIN CN103(WR104d), (L104a), MAIN CN108(WR104e), MAIN CN104(WR104f)	
[5]	MECHANISM ASS'Y	1-2-2a	(S116), BKT(PRE-REC), 3(S115), MECHA BKT ASS'Y	

[WIRE CONNECTION]

WR No.	CONNECTION					
WR101a	FRONT ASS'Y(G)	STROBE	CN6501		MAIN	CN115
WR102a	UPPER ASS'Y(G)	SUB OPE UNIT	—		MAIN	CN112
WR102b	UPPER ASS'Y(G)	MONITOR	CN7601		MAIN	CN113
WR103a	—	MIC ASS'Y	—		MAIN	CN114
WR103b	LOWER ASS'Y(F)	C. OPE UNIT	—		MAIN	CN111
WR103c	LOWER ASS'Y(F)	CCD	—		MAIN	CN102
WR103d	LOWER ASS'Y(F)	BATT. TERM.	—		MAIN	CN101
WR103e	LOWER ASS'Y(F)	SD	CN301		MAIN	CN109
WR104a	MECHA ASS'Y	SENSOR	—		MAIN	CN106
WR104b	MECHA ASS'Y	HEAD	—		MAIN	CN110
WR104c	MECHA ASS'Y	R. ENCODER	—		MAIN	CN107
WR104d	MECHA ASS'Y	LOAD. MOTOR	—		MAIN	CN103
WR104e	MECHA ASS'Y	CAP. MOTOR	—		MAIN	CN108
WR104f	MECHA ASS'Y	DRUM MOTOR	—		MAIN	CN104

[LOWER ASS'Y(F), LOWER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	OP F. ASS'Y	1-2-2b	(S560), SD CN302(WR551a), (S558), BKT(OP)	
	(OP ASS'Y)		(SD551a), CCD BOARD ASS'Y	
[2]	VF ASS'Y(G)	1-2-2b	2(S559), SD CN304(WR552a)	
[3]	SD BOARD ASS'Y	1-2-2b	(S557), SD CN303(WR553a)	
[4]	SIDE OPE BOARD ASS'Y	1-2-2b	2(S512), CAMERA OPE UNIT, (S522), HOLDER(G.OUTER), 2(S514), BKT(S.COVER/VF), (S521), SIDE COVER ASS'Y, KNOB(DSC)	
[5]	CASS.COVER ASS'Y	1-2-2b	4(S515)	
	(ARM ASS'Y)		2(S513), BATT.TERM.	

[UPPER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	MONITOR ASS'Y(G)	1-2-2c	(S614)*, BKT(SPEAKER)*, (S617), 2(S616), 2(S611), (WR601a)	(*601a)
			2(S612), COVER(TOP/UPP)L, COVER(TOP/UPP)R	
[2]	U.CASE ASS'Y	1-2-2c	(S610), FRAME(UPPER) ASS'Y	

(*601a) Mark*: This part was deleted on the way of production.

[MONITOR ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	M.COVER ASS'Y	1-2-2d	3(S815), 2(S814)	
[2]	MONITOR BOARD ASS'Y	1-2-2d	(WR802a), MONITOR CN7601(WR802b), MONITOR CN7602(WR802c), 2(SD802a), (S812), 2(L802a)	
[3]	HINGE UNIT ASS'Y	1-2-2d	(S813)	
[4]	MONITOR CASE(3)	1-2-2d	BACK LIGHT, LCD BKT(3INCH)2, LCD MODULE, LCD BKT(3INCH)1	

[VF ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	VFBW BOARD ASS'Y	1-2-2e	FRAME(VF)2 VFBW CN7002(WR851a), 2(S875)	
[2]	GUIDE(OUTER) ASS'Y	1-2-2e	2(S871), (L852a), COVER(VF) ASS'Y	

<M2> FINAL ASS'Y

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(115)(116)(117)	0.07 ±0.01 N•m
OTHER SCREW	0.09 ±0.01 N•m

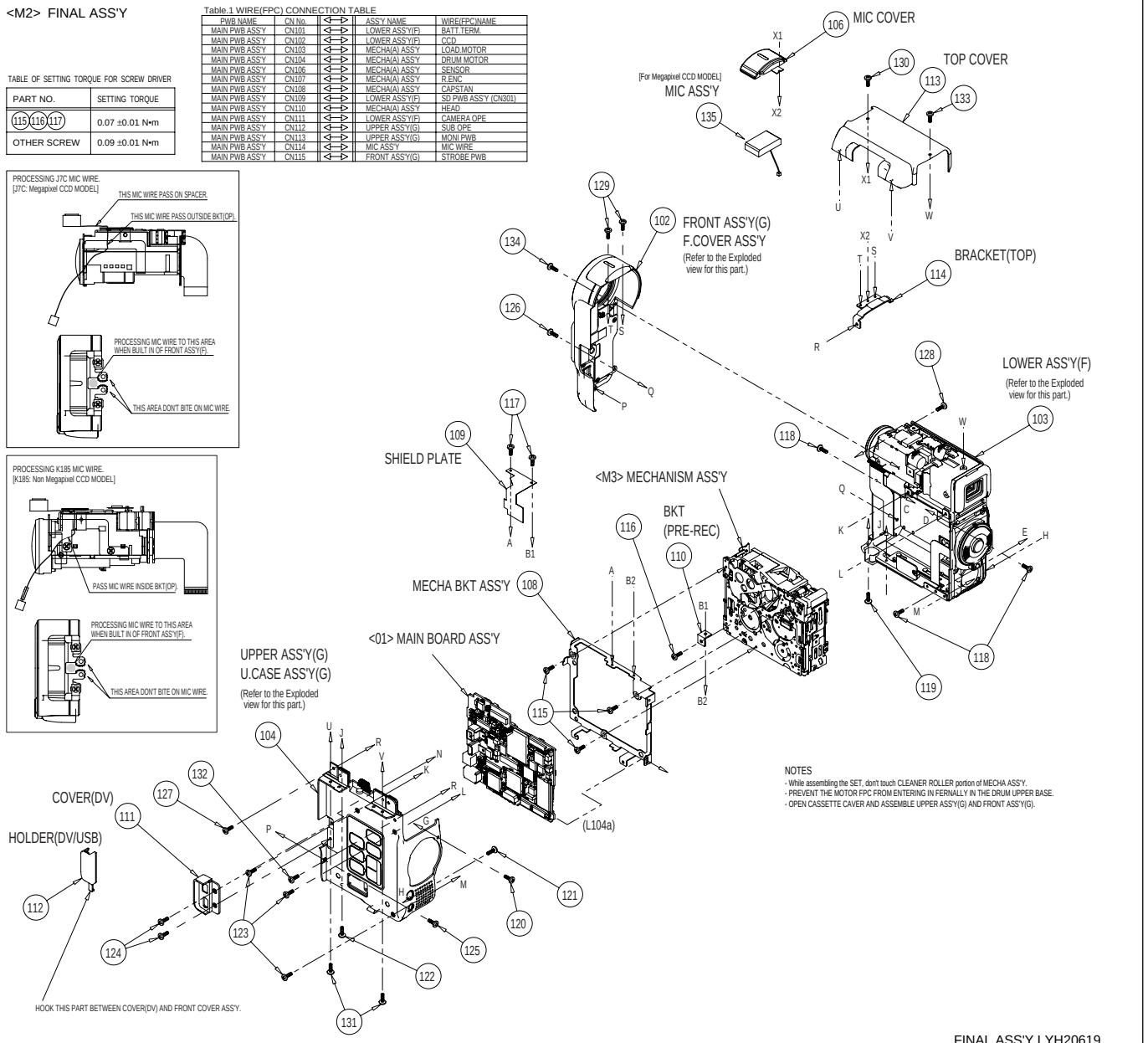
Table.1 WIRE(FPC) CONNECTION TABLE

PWB NAME	CN No.		ASS'Y NAME	WIRE(FPC)NAME
MAIN PWB ASS'Y	CN101	◁▷	LOWER ASS'Y(F)	BATT.TERM.
MAIN PWB ASS'Y	CN102	◁▷	LOWER ASS'Y(F)	CCD
MAIN PWB ASS'Y	CN103	◁▷	MECHA(A) ASS'Y	LOAD.MOTOR
MAIN PWB ASS'Y	CN104	◁▷	MECHA(A) ASS'Y	DRUM MOTOR
MAIN PWB ASS'Y	CN106	◁▷	MECHA(A) ASS'Y	SENSOR
MAIN PWB ASS'Y	CN107	◁▷	MECHA(A) ASS'Y	R.ENC
MAIN PWB ASS'Y	CN108	◁▷	MECHA(A) ASS'Y	CAPSTAN
MAIN PWB ASS'Y	CN109	◁▷	LOWER ASS'Y(F)	SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y	CN110	◁▷	MECHA(A) ASS'Y	HEAD
MAIN PWB ASS'Y	CN111	◁▷	LOWER ASS'Y(F)	CAMERA OPE
MAIN PWB ASS'Y	CN112	◁▷	UPPER ASS'Y(G)	SUB OPE
MAIN PWB ASS'Y	CN113	◁▷	UPPER ASS'Y(G)	MONI PWB
MAIN PWB ASS'Y	CN114	◁▷	MIC ASS'Y	MIC WIRE
MAIN PWB ASS'Y	CN115	◁▷	FRONT ASS'Y(G)	STROBE PWB

PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]

THIS MIC WIRE PASS ON SPACER.
THIS MIC WIRE PASS OUTSIDE BKT(DP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.

PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]



NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).

FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(188)(189)	0.069 ±0.007 N•m

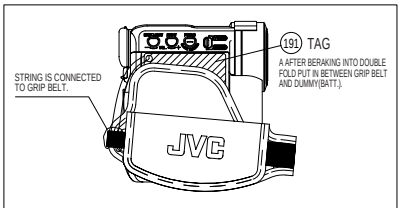


FIG. PROCESSING TAG

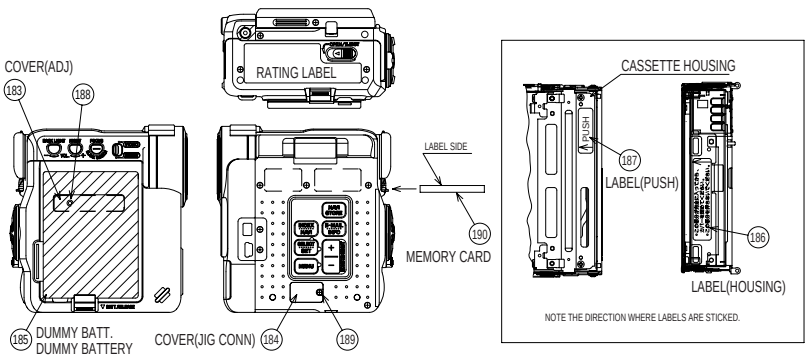


Fig. 1-2-2a FINAL ASS'Y

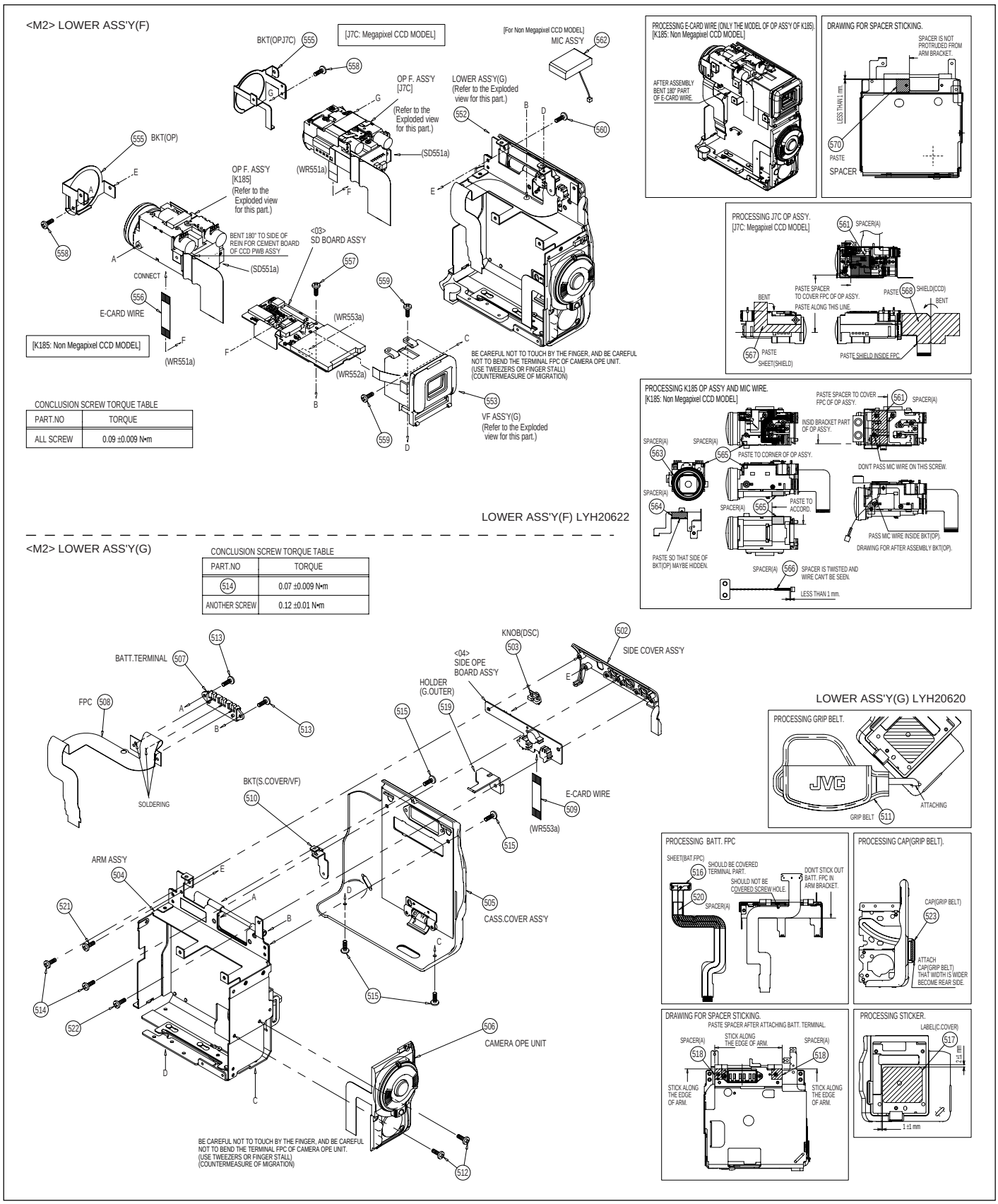
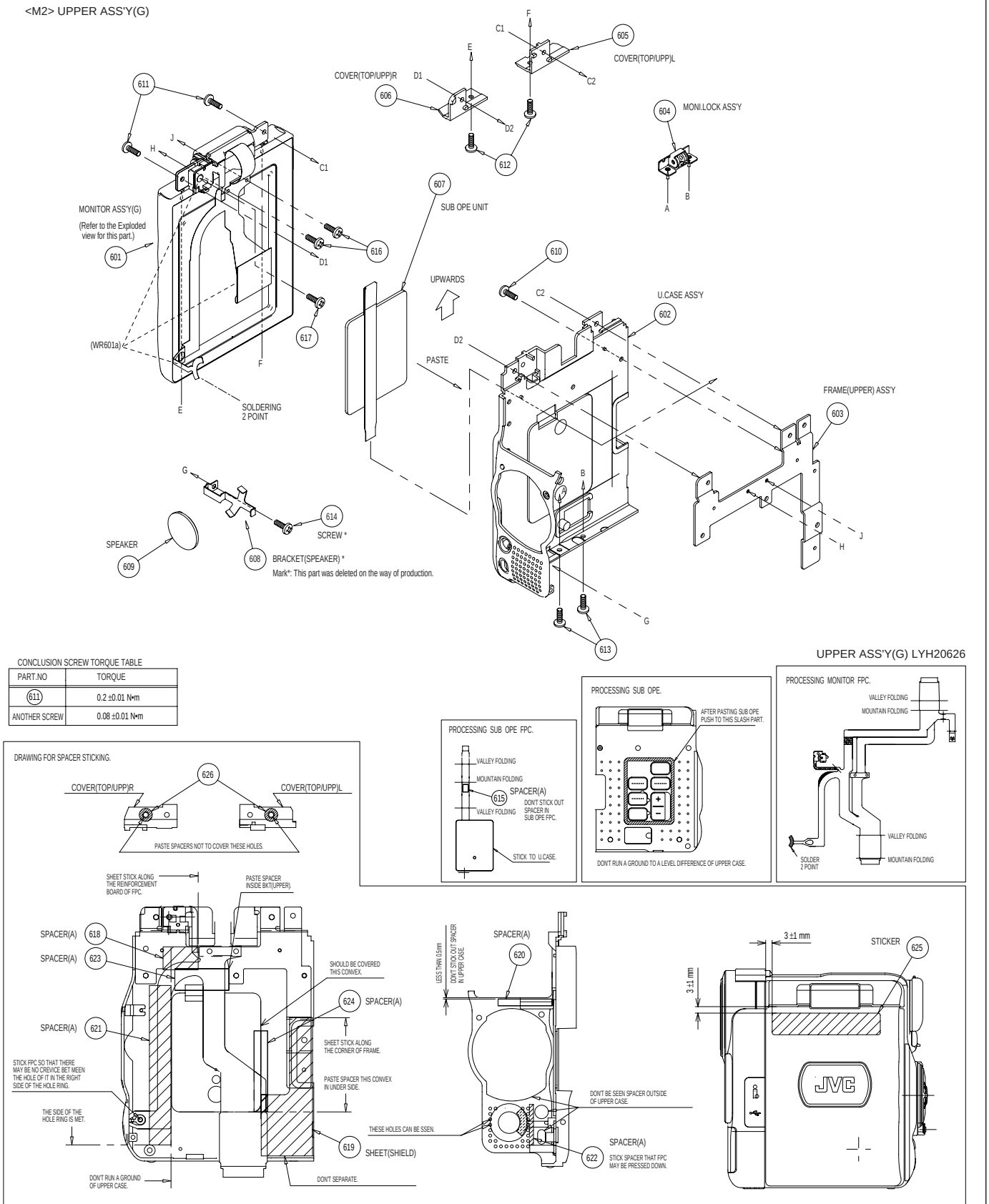


Fig. 1-2-2b LOWER ASS'Y(F), LOWER ASSY(G)

<M2> UPPER ASS'Y(G)



UPPER ASS'Y(G) LYH20626

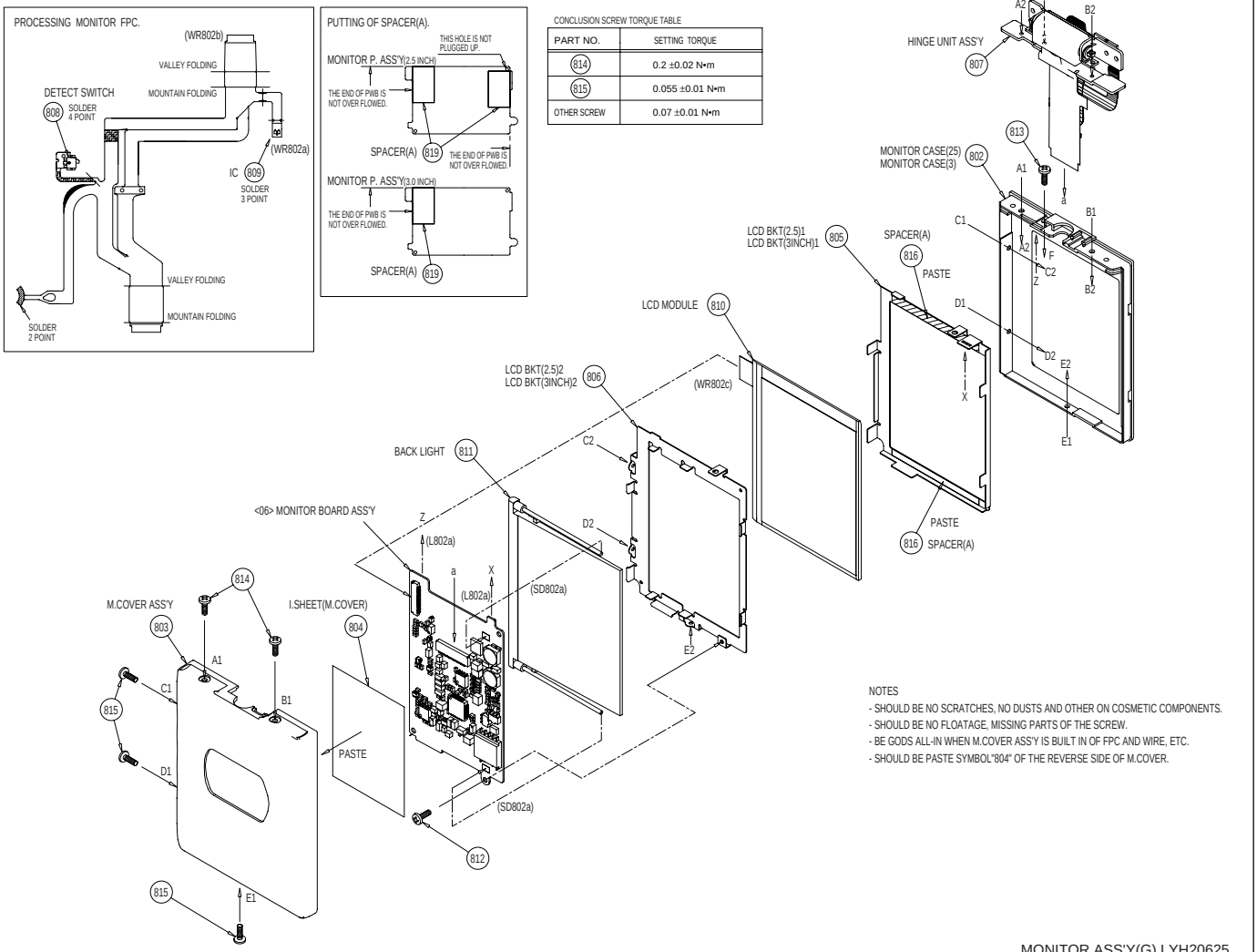
CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
(611)	0.2 ±0.01 N•m
ANOTHER SCREW	0.08 ±0.01 N•m

DRAWING FOR SPACER STICKING.
626
COVER(TOP/UPP)R
COVER(TOP/UPP)L
PASTE SPACERS NOT TO COVER THESE HOLES.
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SPACER(A) 618
SPACER(A) 623
SPACER(A) 621
SHOULD BE COVERED THIS CONVEX.
624 SPACER(A)
SHEET STICK ALONG THE CORNER OF FRAME.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
THE SIDE OF THE HOLE RING IS MET.
THESE HOLES CAN BE SSEN.
619 SHEET(SHIELD)
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
SPACER(A)
615
VALLEY FOLDING
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
VALLEY FOLDING
SOLDER 2 POINT
MOUNTAIN FOLDING
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE.
SPACER(A)
620
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
SPACER(A)
622
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
3 ±1 mm
3 ±1 mm
STICKER
625
JVC

Fig. 1-2-2c UPPER ASS'Y(G)

<M2> MONITOR ASS'Y(G)



MONITOR ASS'Y(G) LYH20625

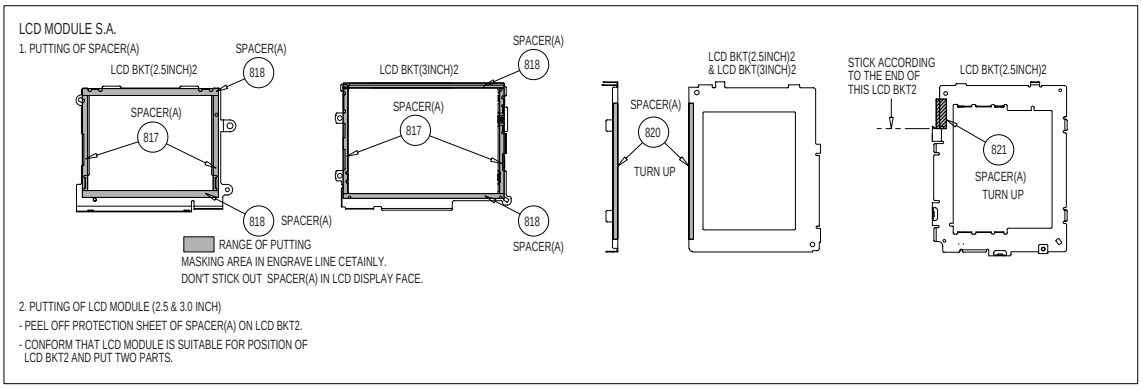

LCD MODULE S.A.
1. PUTTING OF SPACER(A)
SPACER(A) 818
LCD BKT(2.5INCH)2
SPACER(A) 817
818 SPACER(A)
LCD BKT(3INCH)2
SPACER(A) 818
SPACER(A) 817
818 SPACER(A)
RANGE OF PUTTING
MASKING AREA IN ENGRAVE LINE CETAINLY.
DON'T STICK OUT SPACER(A) IN LCD DISPLAY FACE.
LCD BKT(2.5INCH)2 & LCD BKT(3INCH)2
SPACER(A) 820
TURN UP
STICK ACCORDING TO THE END OF THIS LCD BKT2
LCD BKT(2.5INCH)2
821
SPACER(A) TURN UP
2. PUTTING OF LCD MODULE (2.5 & 3.0 INCH)
- PEEL OFF PROTECTION SHEET OF SPACER(A) ON LCD BKT2.
- CONFORM THAT LCD MODULE IS SUITABLE FOR POSITION OF LCD BKT2 AND PUT TWO PARTS.

Fig. 1-2-2d MONITOR ASS'Y(G)

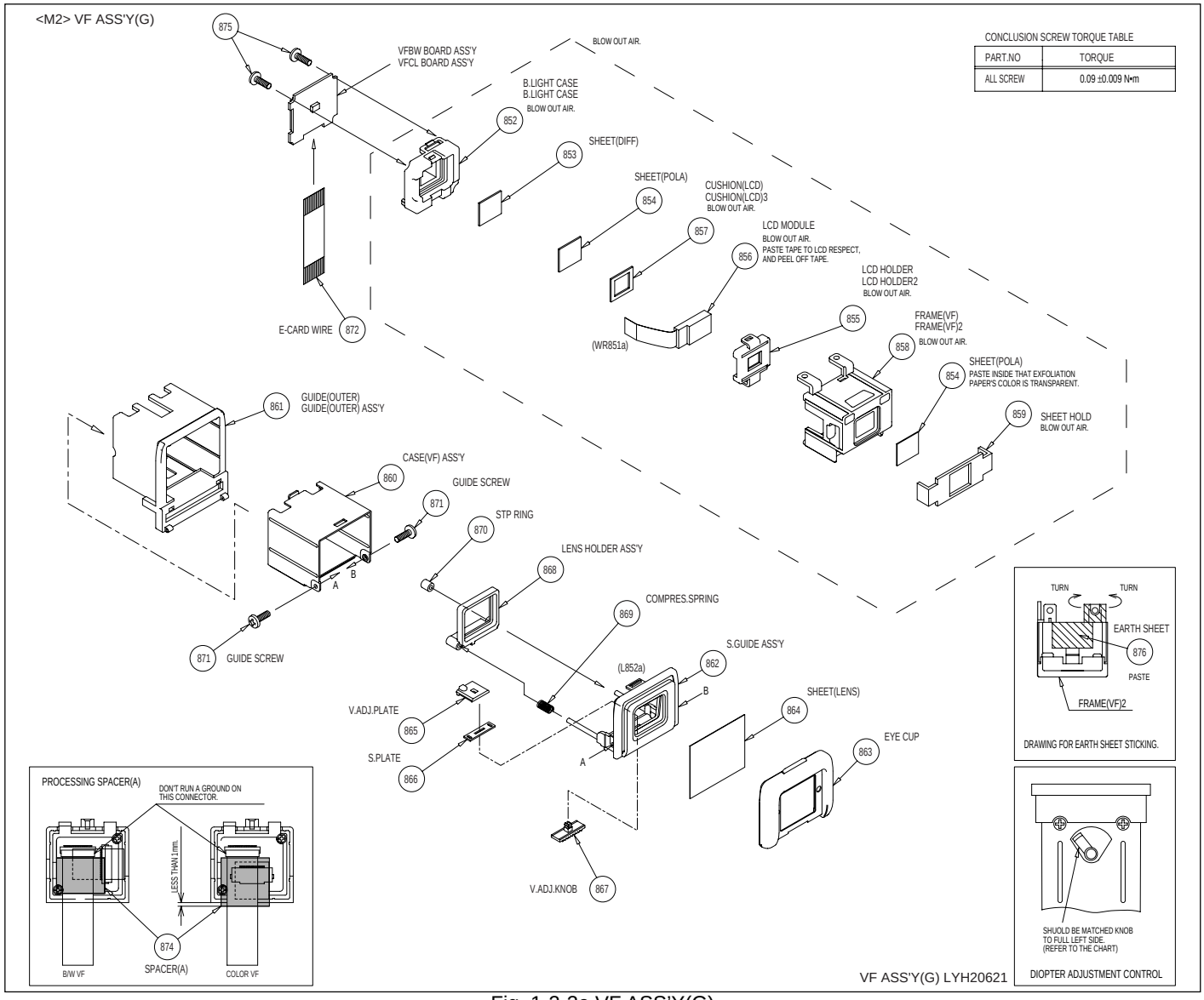


Fig. 1-2-2e VF ASS'Y(G)

1.3 Manually removing the cassette tape

The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

(1) Remove the Power Unit (battery, DC code, etc.) from the main unit.
(2) Open the Cassette cover.
(3) Attach a piece of PVC tape at the front of the Cassette housing.
    This helps prevent the tape from being damaged when the Cassette housing assembly is moved upward at the unloading end.
(4) Apply DC3V to the electrode on the top surface of the Loading motor assembly to set the Mechanism assembly to the eject mode.
    Unloading end is eject mode.
(5) If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Reel disk (SUP) from the backside of the Slide deck assembly.
(6) Peel off the PVC tape and take out the cassette tape from the Cassette housing.
    Make sure that grease or a similar substance is not attached to the surface of the tape.
    Similarly, also make sure that grease or a similar substance is not attached on the Mechanism assembly.

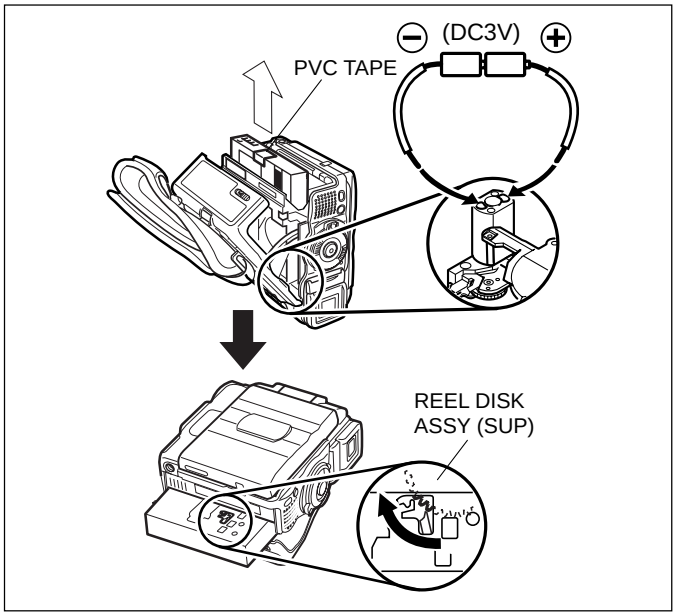
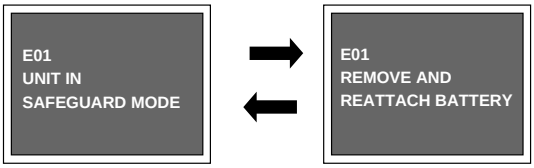


Fig. 1-3a

1.4 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the Electronic view finder).
In every error status, such the message as shown below alternately appear over and over.
In an emergency mode, all operations except turning on/off the Power switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLW/ STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	—	—	—
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/ REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Fig. 1-4a

SECTION 3
ADJUSTMENT

3.1 Before adjustment

3.1.1 Precaution

This model does not contain adjustment controls (VR).
General deck system, camera system and monitor system adjustment are not required. However, if circuit board mounting the EEPROM needs replacement, please use original EEPROM on to new board. Then adjustment are not required. And if parts such as the following need replacement, special computerized adjustment are required. Electrical adjustment with personal computer is setup and it adjusts using a service support system. Please contact to JVC Service for detail information.

- OP BLOCK ASSEMBLY
- EEPROM (IC1003 of MAIN board) [Megapixel CCD MODEL]
- EEPROM (IC1005 of MAIN board) [Non Megapixel CCD MODEL]

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

- In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
- Since connectors are fragile, carefully handle them in disconnecting and connecting.
- In the following work, use the patch cords as required. For details of the patch cords, see the "BOARD INTERCONNECTIONS" (CHARTS AND DIAGRAMS).

3.1.2 Required test equipments

- AC power adapter
- Color television or monitor
- Oscilloscope
  (dual-trace type, observable 100 MHz or higher frequency)
  It is recommended to use one observable 300 MHz or higher frequency.
- Digital voltmeter
- Frequency counter (with threshold level adjuster)
- Personal computer

3.1.3 Required adjustment tools

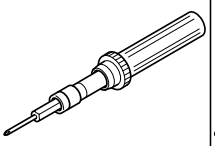
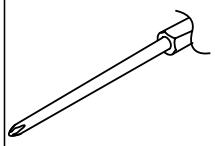
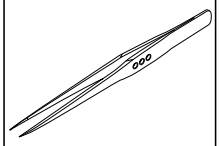
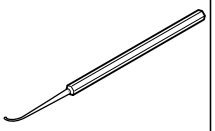
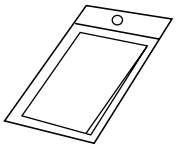
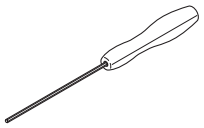
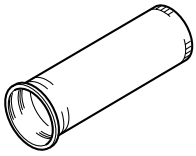
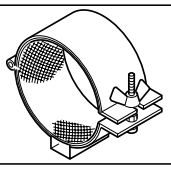
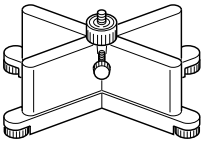
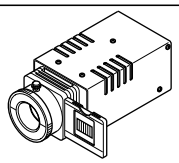
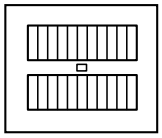
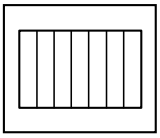
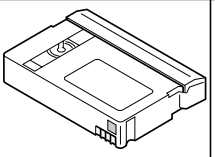
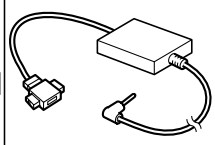
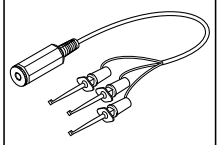
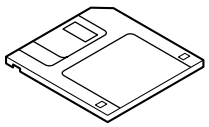
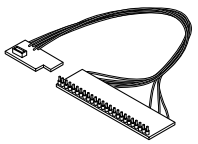
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	Guide driver (Hexagonal) D-770-1.27
		
INF adjustment lens YTU92001B	INF lens holder YTU94087	Camera stand YTU93079
		
Light box assembly YTU93096A	Gray scale chart YTU94133A	Color bar chart YTU94133C
		
Alignment tape MC-*	PC cable QAM0099-***	Communication cable YTU93107A
		
Service support system YTU94057-**	Jig connector cable YTU93106B	Extension connector YTU94145C-30
		

Table 3-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
- Guide driver (Hexagonal)
  To be used for mechanism compatibility adjustment.
- INF adjustment lens
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- INF lens holder
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Camera stand
  To be used together with the INF adjustment lens holder.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Light box assembly
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Gray scale chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Color bar chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Alignment tape
  To be used for mechanism compatibility adjustment.
  MC-1 [For NTSC model]
  MC-2 [For PAL model]
- PC cable
  To be used to connect the Videocamera and a personal computer with each other when a personal computer is used for adjustment.
  QAM0099-001 [For J* model]
  QAM0099-002 [For U* and K* models]
  QAM0099-003 [For E* models]
  QAM0099-005 [For A* models]
- Communication cable
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- Service support system
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- Jig connector cable
  Connected to CN for Jig of the circuit board and used for electrical adjustment, etc.
- Extension connector
  Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.

3.1.4 Jig connector cable connection

3.1.4.1 Preparation

The Jig connector cable (YTU93106B) has been provided for GR-DV2000 series. And it has been connected only 9 terminals for low cost, although it has 30 terminals.
Now it can be used another series camcorder, but all the terminals have to be connected by soldering wires. Refer to the Service Bulletin (No. YA-SB-10082), and connect all the terminals.

3.1.4.2 Connection

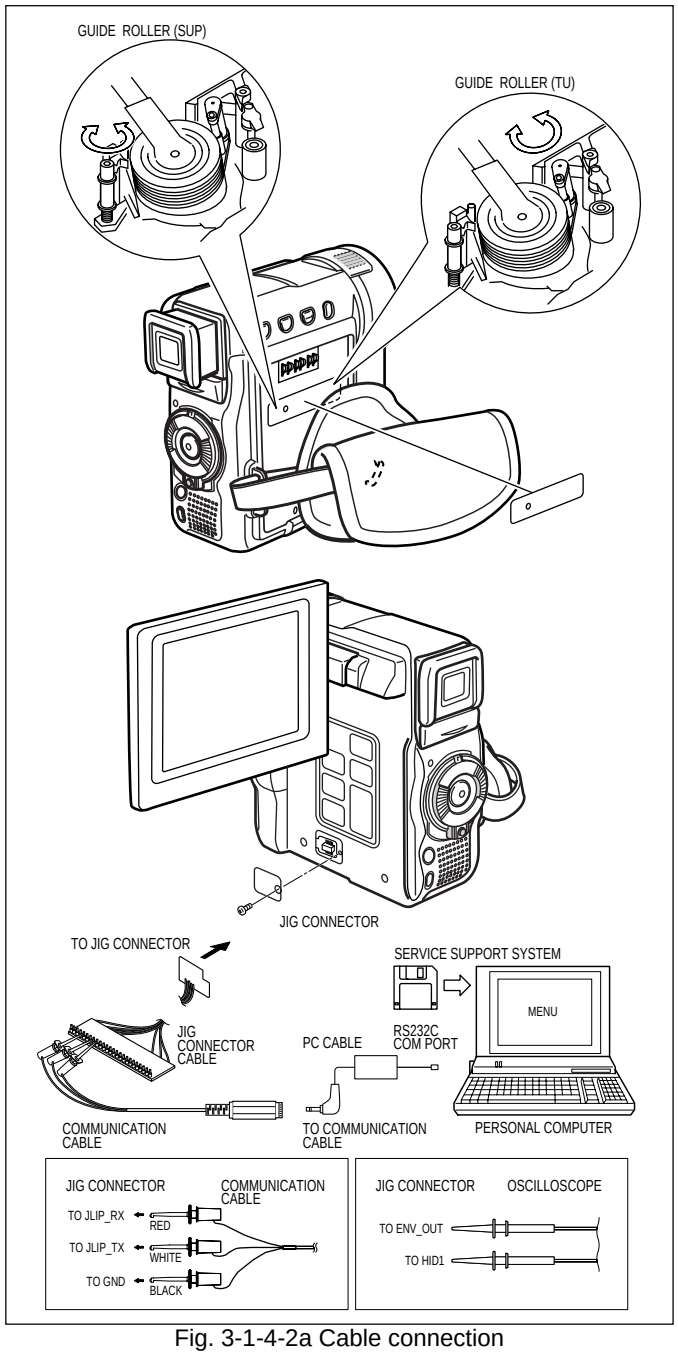


Fig. 3-1-4-2a Cable connection

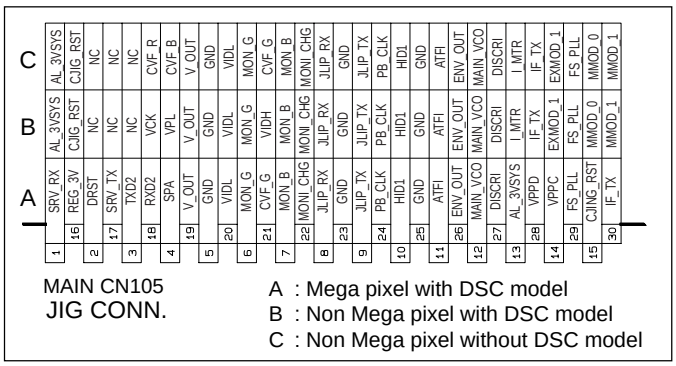


Fig. 3-1-4-2b Schematic diagram of Jig CN

3.2 Mechanism compatibility adjustment

3.2.1 Tape pattern check

(1) Play back the tape for compatibility adjustment.
(2) Apply the external trigger signal to HID1, to observe the waveform of the ENV_OUT.
(3) Set to the manual tracking mode (ATF OFF).
(4) Make sure that there is no significant level drop of the waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required.
(5) Reduce the waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller (supply side) to make the waveform linear.
If a drop in level is on the right side, likewise turn the guide roller (take-up side) to make it linear.
(6) Unload the cassette tape once, play back the tape again and confirm that the waveform is flat.
(7) Record at the recording tape, and play back the recorded signal.
(8) Confirm that the waveform is flat.

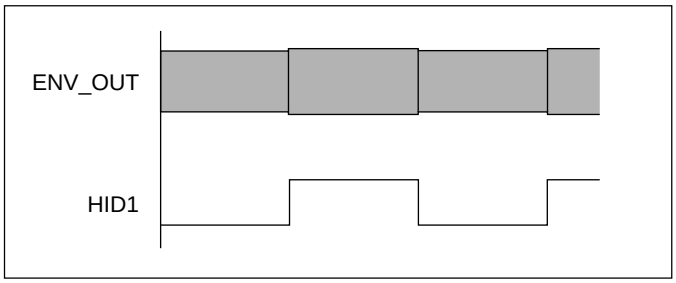


Fig. 3-2-1a

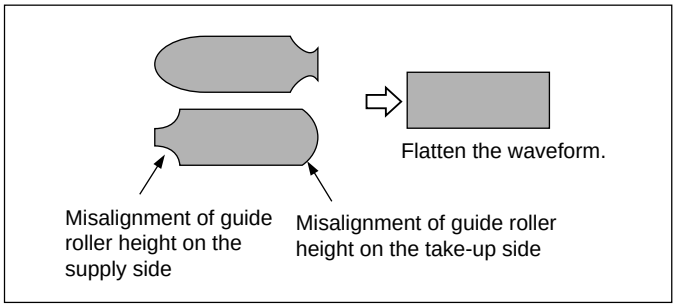

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 3-2-1b

3.3 Electrical adjustment

Adjustment is performed by using personal computer. Read README.TXT file to use the software for Service support system properly.
As for the connection of cables, see Fig. Cable connection.

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY. 12,3-chome,Moriya-cho,Kanagawa-ku,Yokohama,Kanagawa-prefecture,221-8528,Japan

Printed in Japan
0306 VP

SECTION 4
CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions
The Components identified by the symbol ⚠ are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

1) All resistance values are in ohm. 1/6 W, 1/8 W (refer to parts list).
   Chip resistors are 1/16 W.
   K: KΩ (1000Ω), M: MΩ (1000KΩ)
2) All capacitance values are in μF, (P: PF).
3) All inductance values are in μH, (m: mH).
4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

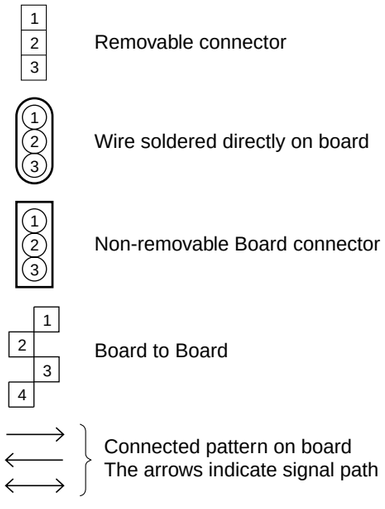
Note: The Parts Number, value and rated voltage etc. in the Schematic Diagram are for references only. When replacing the parts, refer to the Parts List.

2. Indications of control voltage

AUX : Active at high.

$\overline{\text{AUX}}$ or AUX(L) : Active at low.

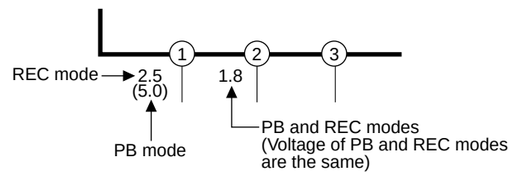
3. Interpreting Connector indications



Note: For the destination of each signal and further line connections that are cut off from the diagram, refer to "BOARD INTERCONNECTIONS"

4. Voltage measurement

1) Regulator (DC/DC CONV) circuits
   REC : Colour bar signal.
   PB : Alignment tape (Colour bar).
   — : Unmeasurable or unnecessary to measure.
4) Indication on schematic diagram
   Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Signal path Symbols

The arrows indicate the signal path as follows.

NOTE : The arrow is DVC unique object.

Playback signal path

Playback and recording signal path

Recording signal path
(including E-E signal path)

Capstan servo path

Drum servo path

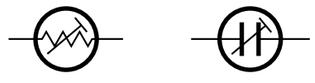
(Example)

R-Y Playback R-Y signal path

Y Recording Y signal path

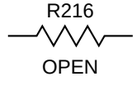
6. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



7. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



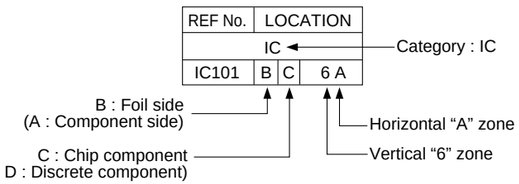
CIRCUIT BOARD NOTES

1. Foil and Component sides

1) Foil side (B side) :
   Parts on the foil side seen from foil face (pattern face) are indicated.
2) Component side (A side) :
   Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

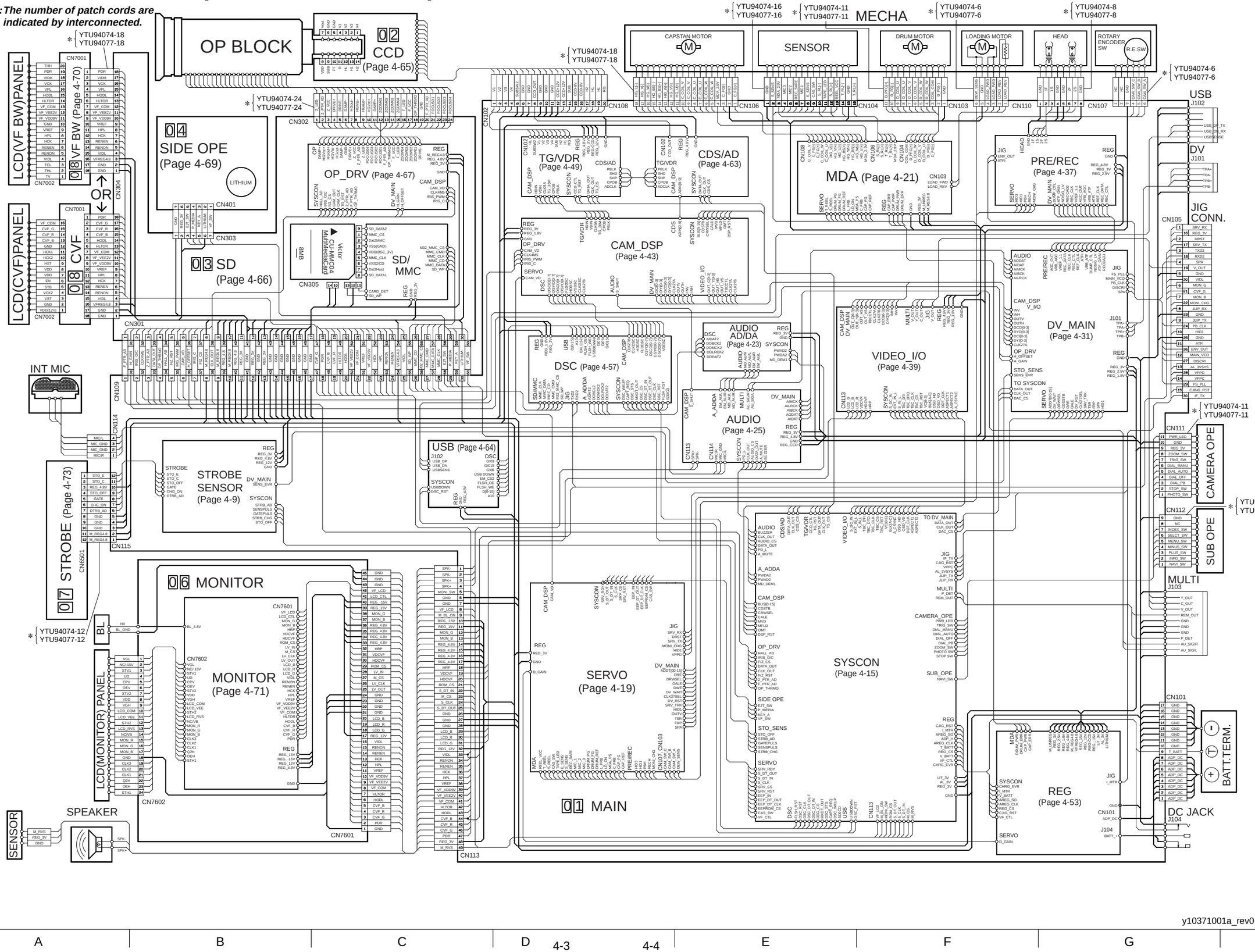
Parts location are indicated by guide scale on the circuit board.



Note: For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS [FOR MEGA PIXEL with DSC MODEL]

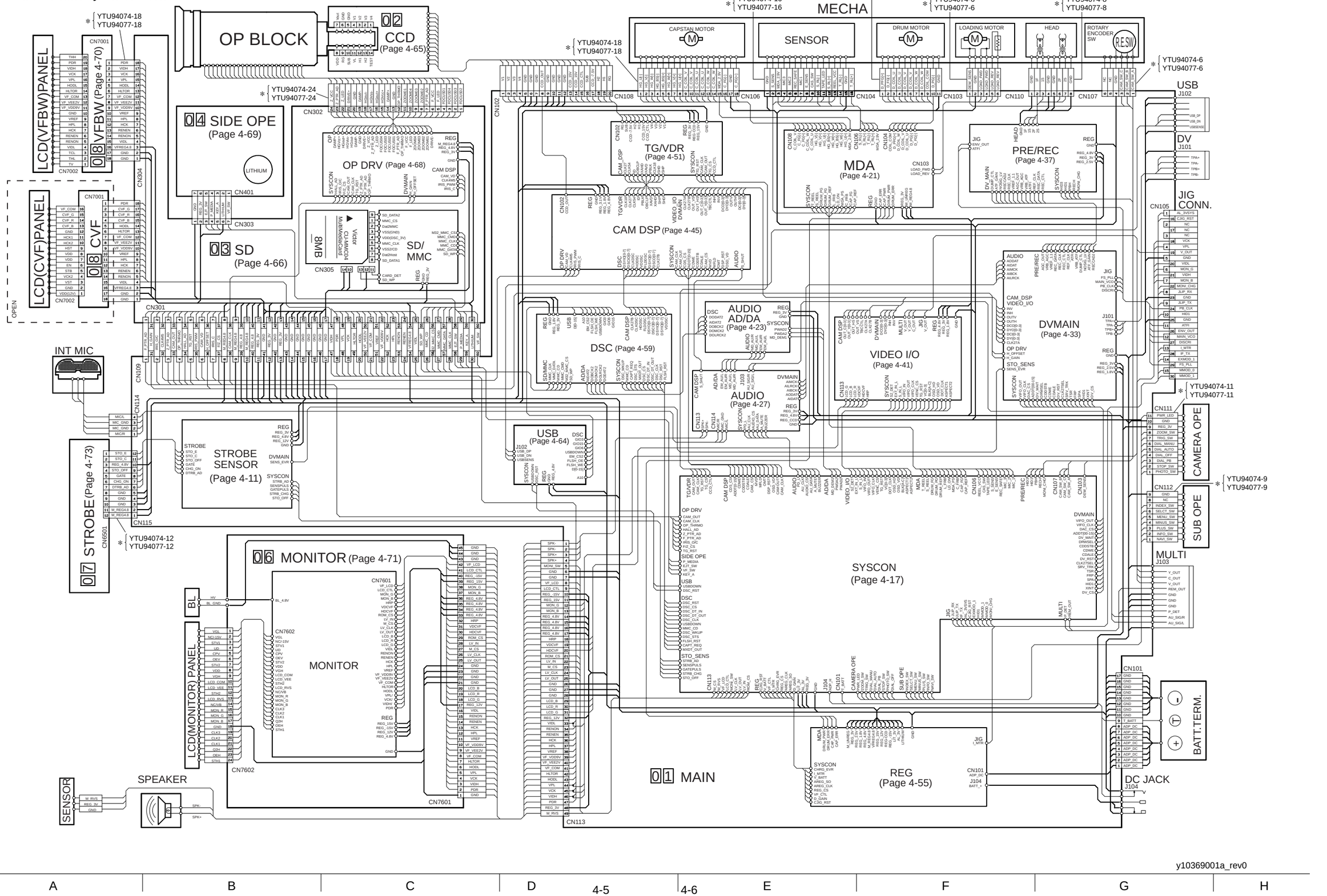
NOTE)✻ :The number of patch cords are indicated by interconnected.



y10371001a_rev0

4.2 BOARD INTERCONNECTIONS [FOR NON-MEGA PIXEL with DSC MODEL]

NOTE)✲ : The number of patch cords are indicated by interconnected.

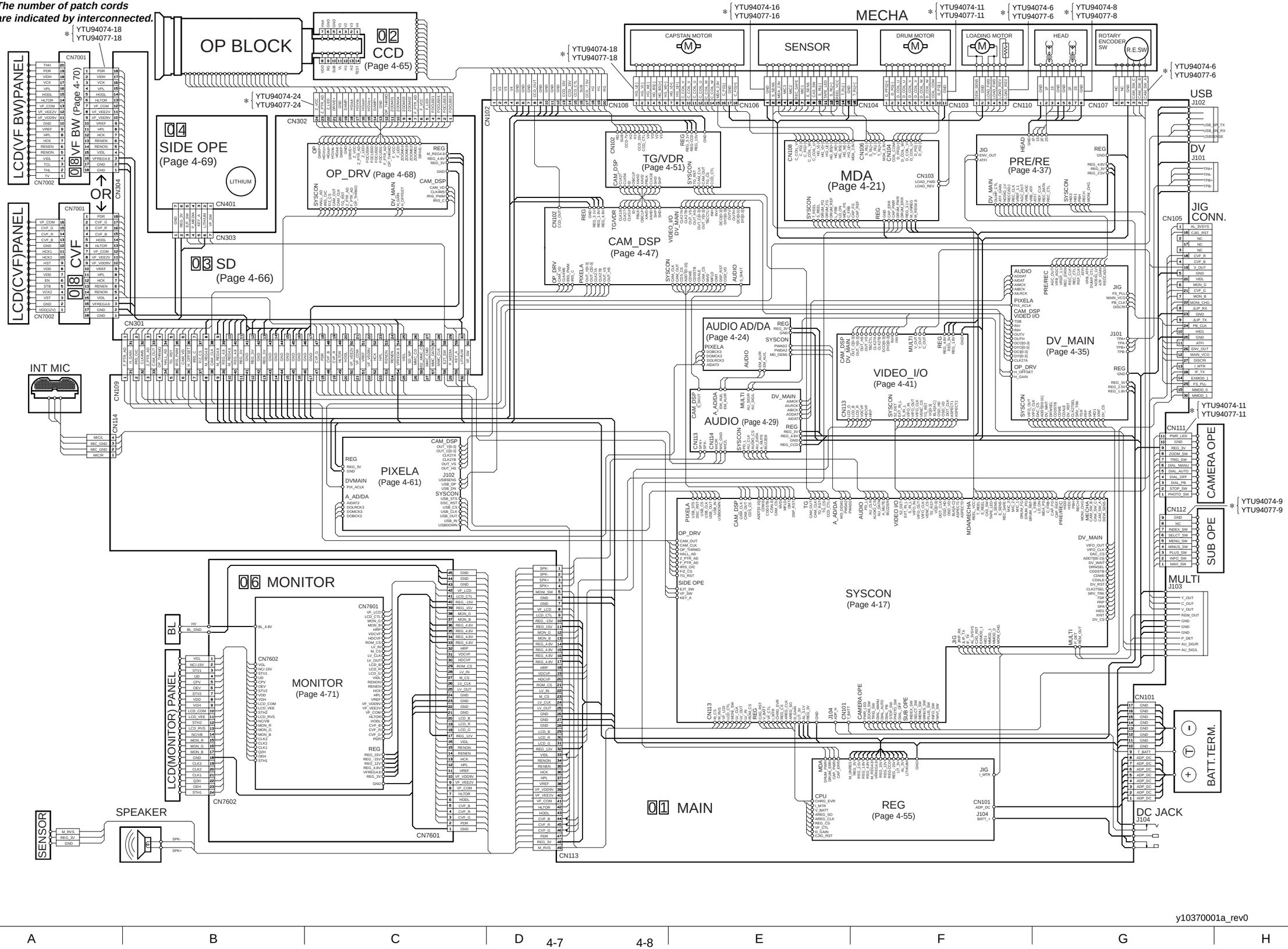


y10369001a_rev0

4-5 4-6

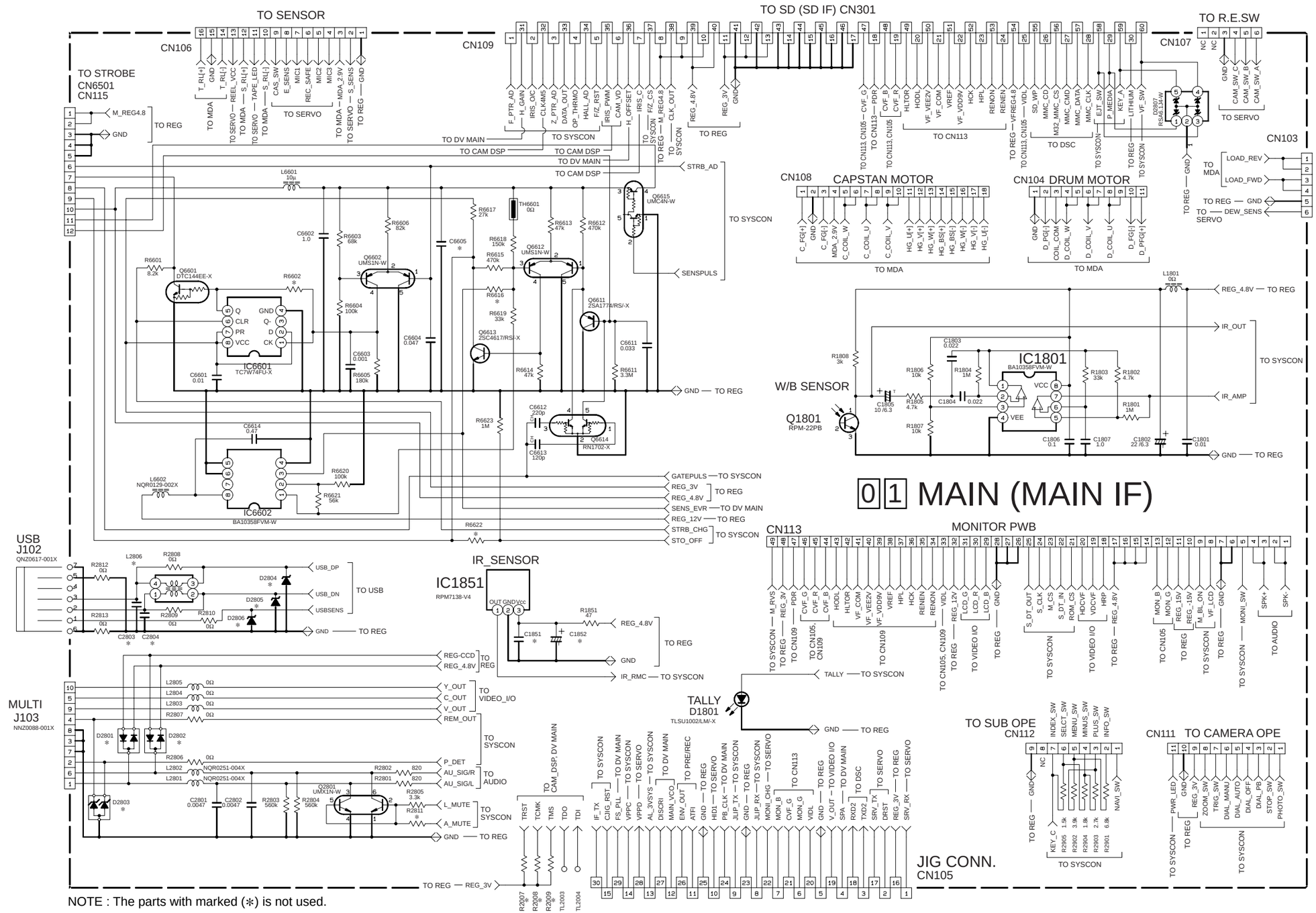
4.3 BOARD INTERCONNECTIONS [FOR NON-MEGA PIXEL without DSC MODEL]

NOTE)* : The number of patch cords are indicated by interconnected.



y10370001a_rev0

4.4 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



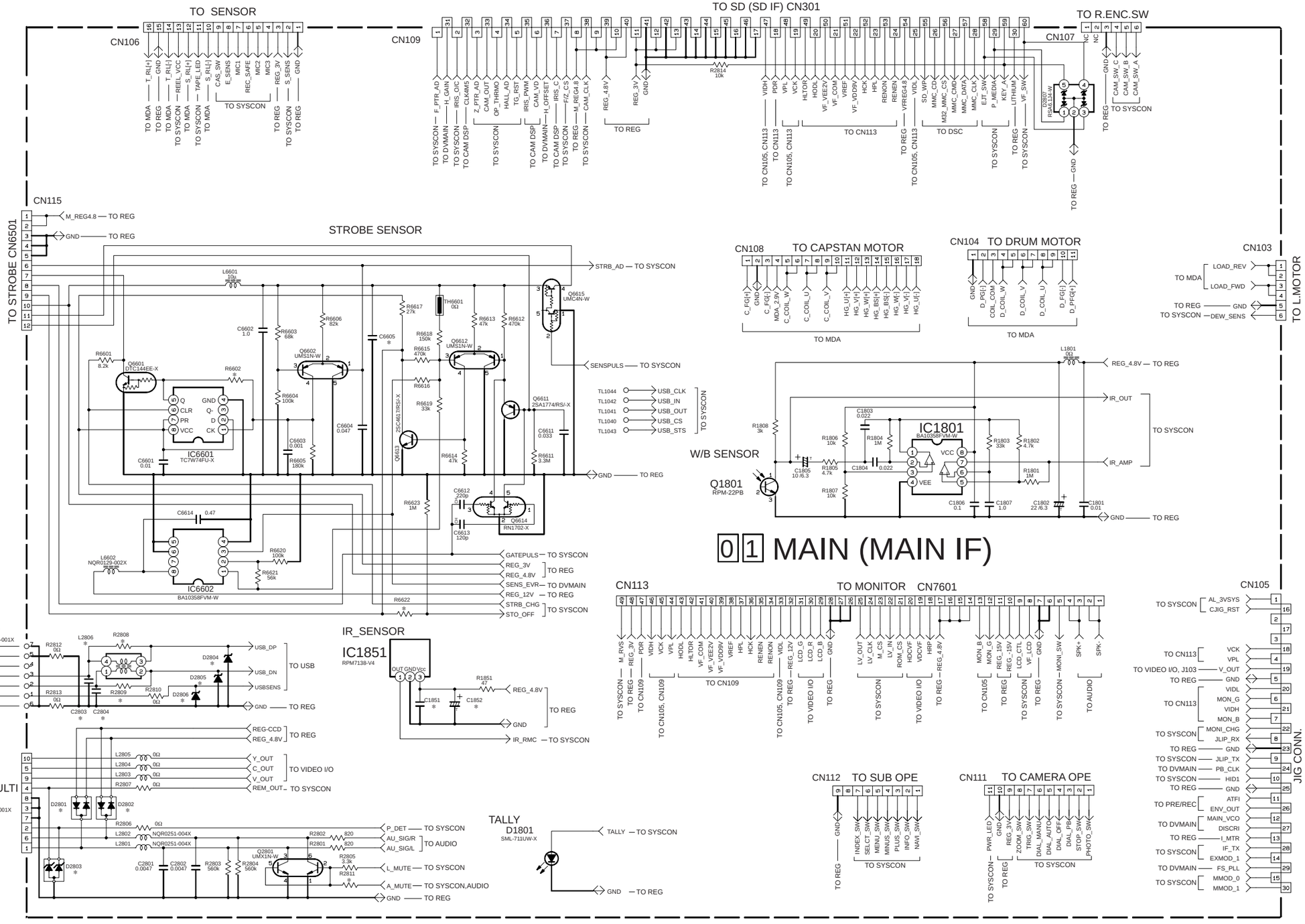
NOTE : The parts with marked (*) is not used.

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2001 ~ 2100		Symbol No. 2801 ~ 2950		Symbol No. 6601 ~ 6700	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2009	2001-2006	2905	2815-2900	6623	6607~6610,
C	1807		1852		—		2804		6614	6606~6610,
D	1801		—		—		2807		—	
Q	1801		—		—		2801		6615	6603~6610,
L	1801		—		—		2806		6602	
IC	1801		1851		—		—		6602	

NOTES : UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
TANTAL
CERAMIC

y20267001a_rev0

4.5 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



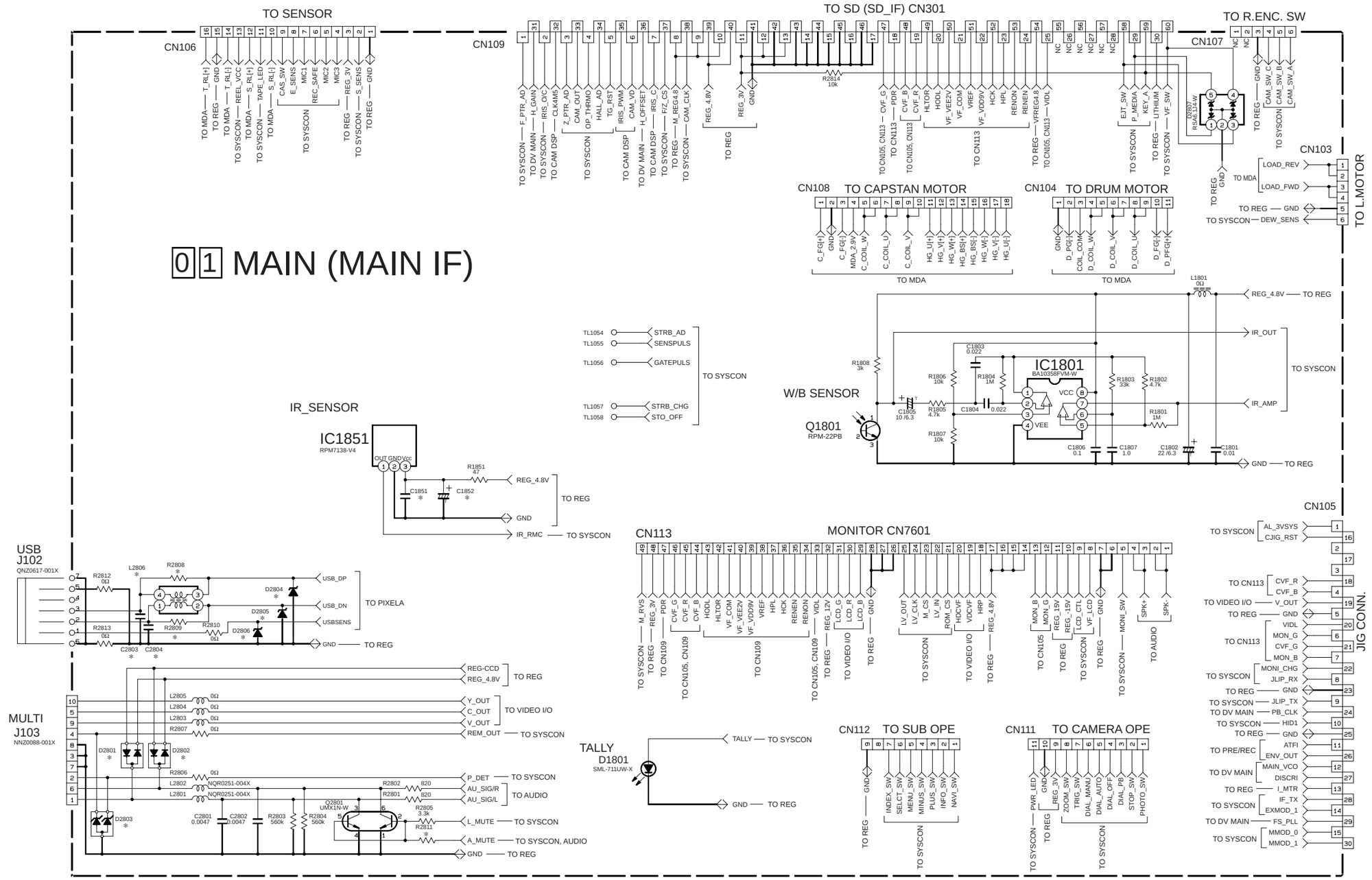
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2801 ~ 2900		Symbol No. 6601 ~ 6700	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2814		6623	6607~6610,
C	1807		1852		2804		6614	6606~6610,
D	1801		—		2807		—	
Q	1801		—		2801		6615	6603~6610,
L	1801		—		2806		6602	
IC	1801		1851		—		6602	

y20265001a_rev0

4.6 MAIN(MAIN IF) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



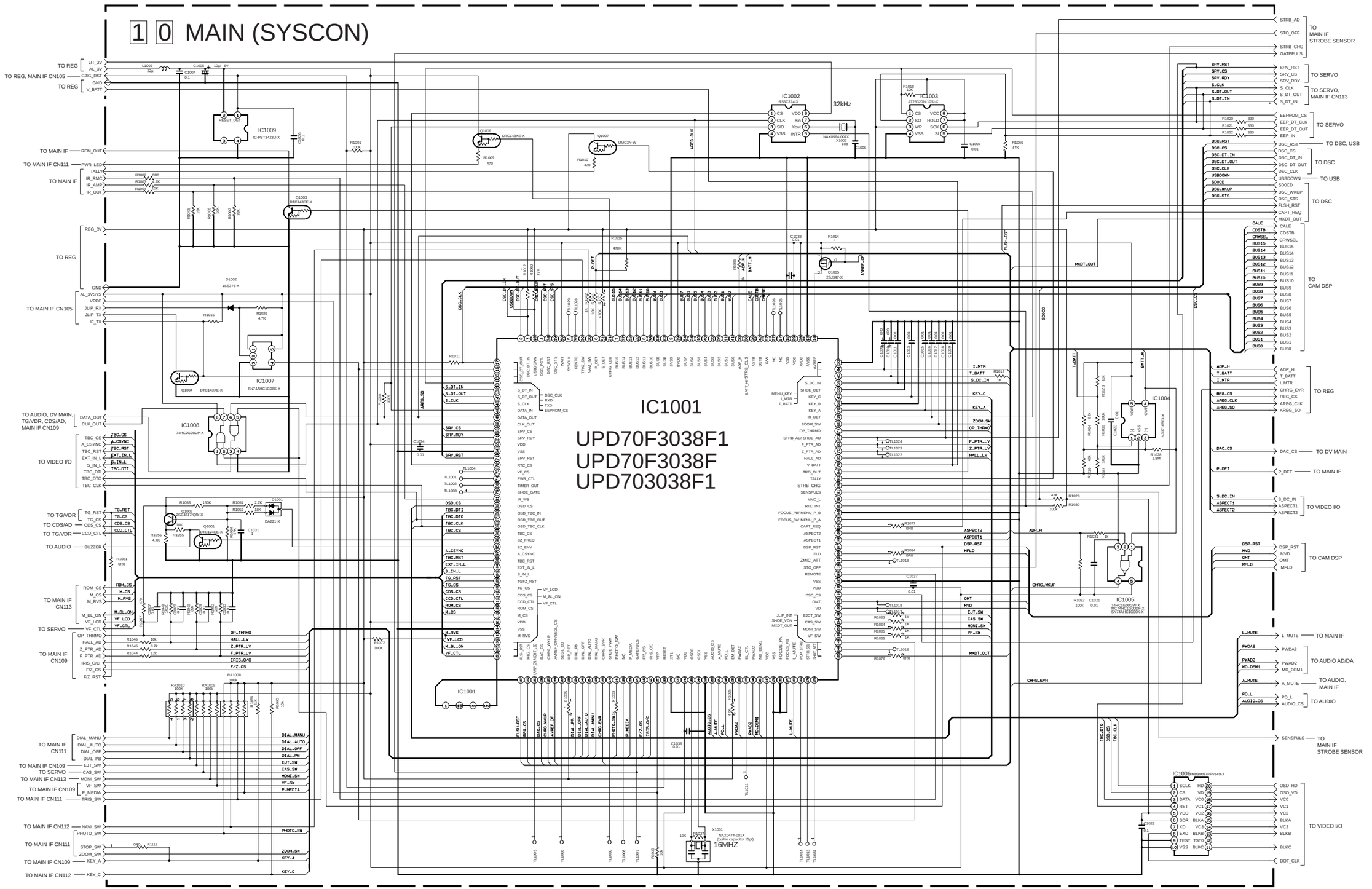
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

	Symbol No. 1801 ~ 1850		Symbol No. 1851 ~ 1900		Symbol No. 2801 ~ 2900	
	LAST No.	VACANT No.	LAST No.	VACANT No.	LAST No.	VACANT No.
R	1808		1851		2814	
C	1807		1852		2804	
D	1801		—		2807	
Q	1801		—		2801	
L	1801		—		2806	
IC	1801		1851		—	

y20266001a_rev0

4.7 MAIN(SYSCON) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



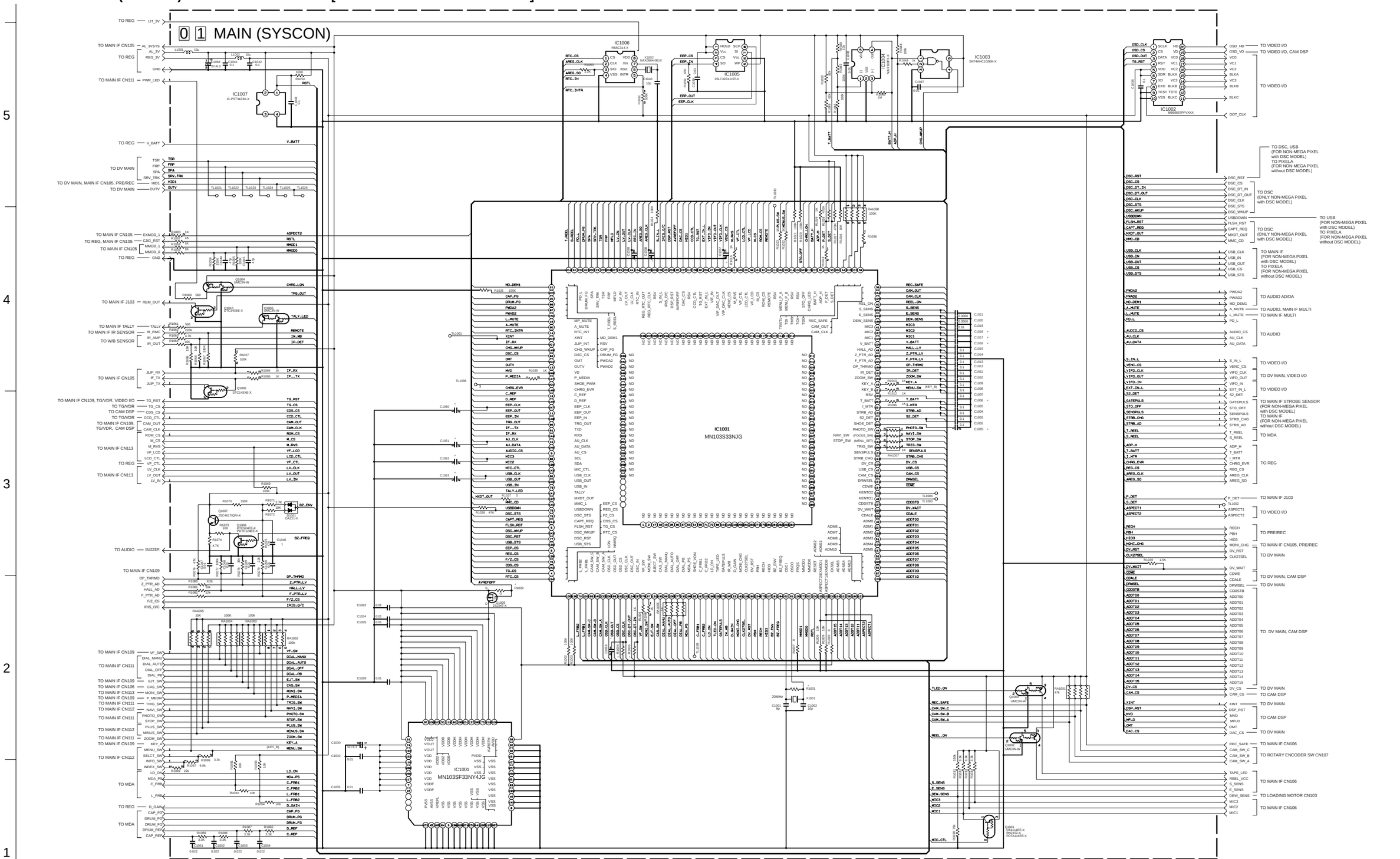
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	1111
C	1041
D	1002
Q	1007
L	1002
IC	1009
RA	1010

y10373001a_rev0

4.8 MAIN(SYSCON) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]


0 1 MAIN (SYSCON)
IC1001
MN103SF33NYJG
IC1002
IC1003
IC1004
IC1005
IC1006
IC1007
TO VIDEO I/O
TO VIDEO I/O, CAM DSP
TO DSC, USB (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO DSC (ONLY NON-MEGA PIXEL with DSC MODEL)
TO USB (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO MAIN IF (FOR NON-MEGA PIXEL with DSC MODEL) TO PIXELA (FOR NON-MEGA PIXEL without DSC MODEL)
TO AUDIO AD/DA
TO AUDIO, MAIN IF MULTI
TO MAIN IF MULTI
TO AUDIO
TO VIDEO I/O
TO DV MAIN, VIDEO I/O
TO VIDEO I/O
TO MAIN IF STROBE SENSOR (FOR NON-MEGA PIXEL with DSC MODEL) TO MAIN IF (FOR NON-MEGA PIXEL without DSC MODEL)
TO MDA
TO REG
TO MAIN IF J103
TO VIDEO I/O
TO PRE/REC
TO MAIN IF CN105, PRE/REC
TO DV MAIN
TO DV MAIN, CAM DSP
TO DV MAIN
TO DV MAIN, CAM DSP
TO DV MAIN
TO CAM DSP
TO DV MAIN
TO MAIN IF CN106
TO ROTARY ENCODER SW CN107
TO MAIN IF CN106
TO LOADING MOTOR CN103
TO MAIN IF CN106

NOTE : The parts with marked (*) is not used.

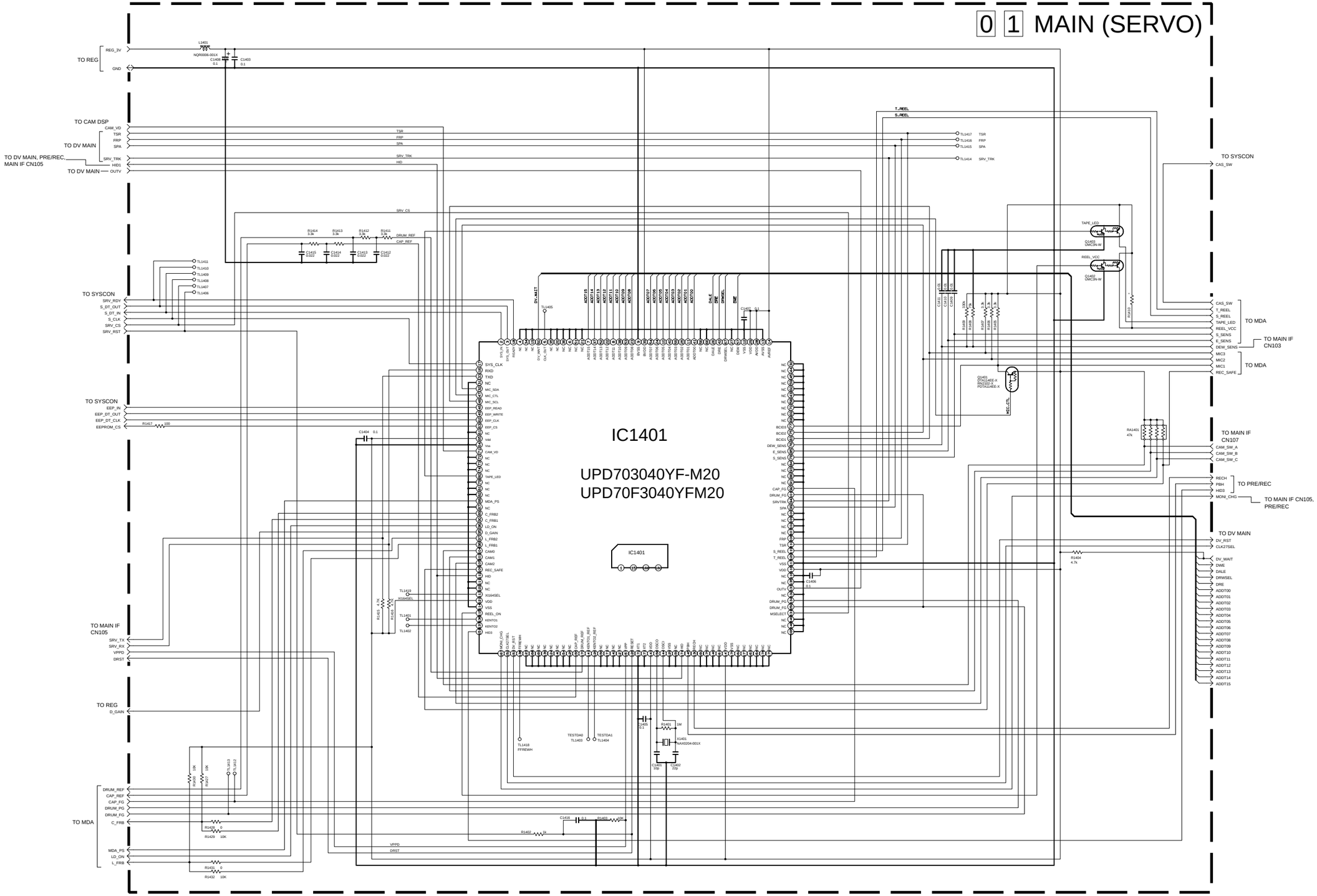
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

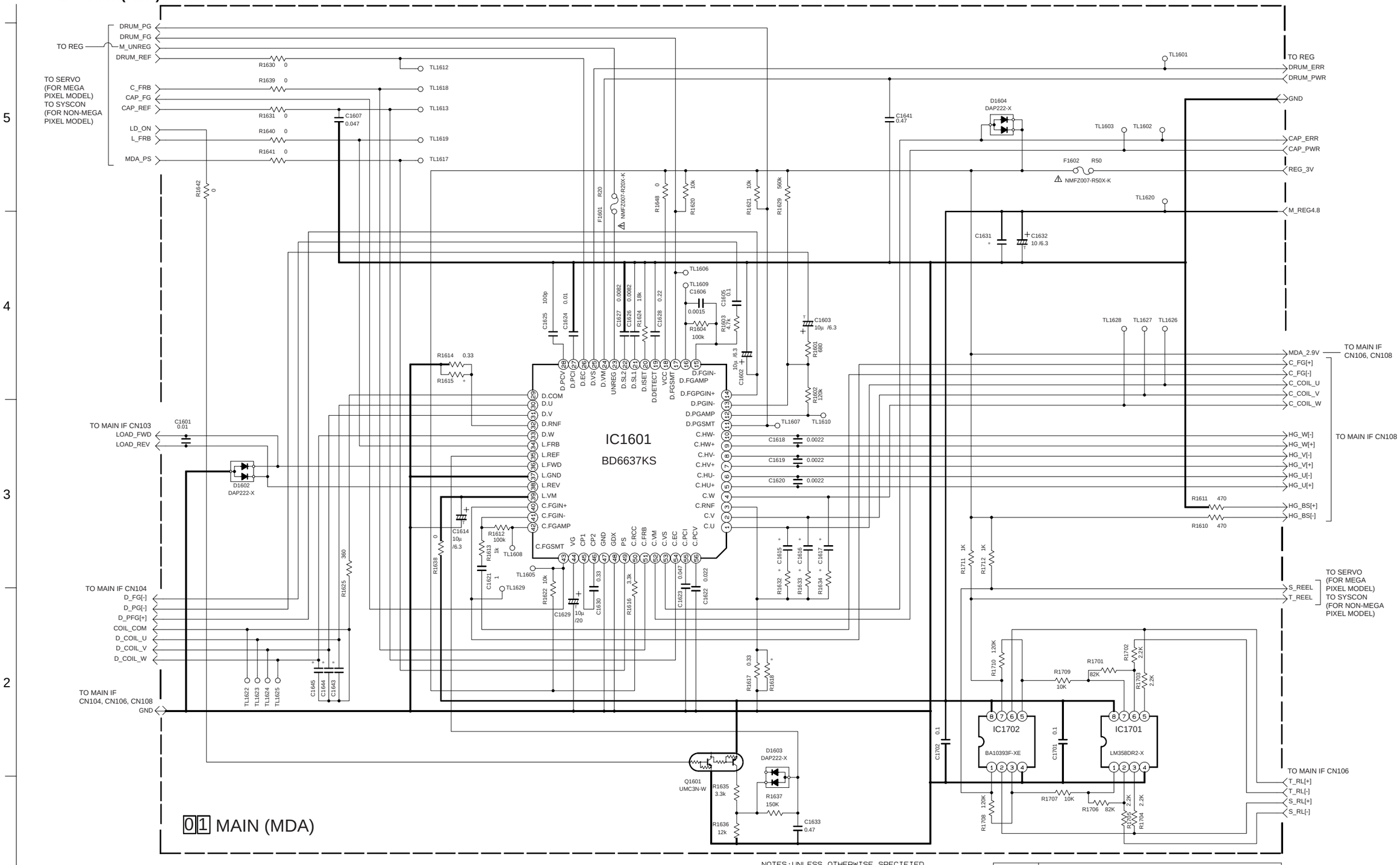
LAST NO	VACANT NO
R	1099 1011, 1028, 1038, 1040, 1041, 1042, 1042,
C	1065 1023, 1026, 1027, 1029, 1031, 1033, 1034.
D	1001
Q	1010
L	1002
IC	1007
RA	1008
TL	1039

y10372001a_rev0

4.9 MAIN(SERVO) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



4.10 MAIN(MDA) SCHEMATIC DIAGRAM



NOTE : The parts with marked (∗) is not used.

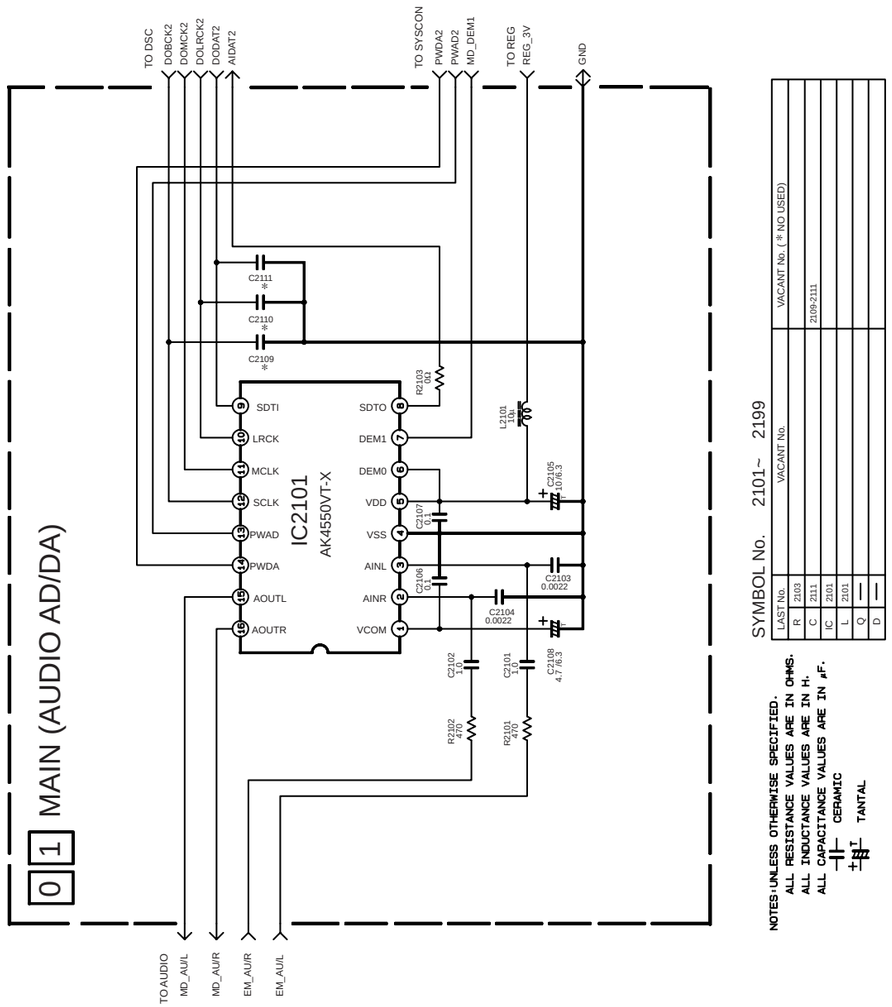
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
R	1712	1605-1609,1619,1623,1626-1628,1643-1647,1649-1700
C	1702	1604,1608-1613,1634-1640,1642,1646-1700
D	1604	1601
Q	1601	
L	—	
IC	1702	1602-1700
F	1602	

y20268001a_rev0

4.11 MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM [FOR with DSC MODEL]



VACANT No. (* NO USED)

SYMBOL No. 2101~ 2199

VACANT No.

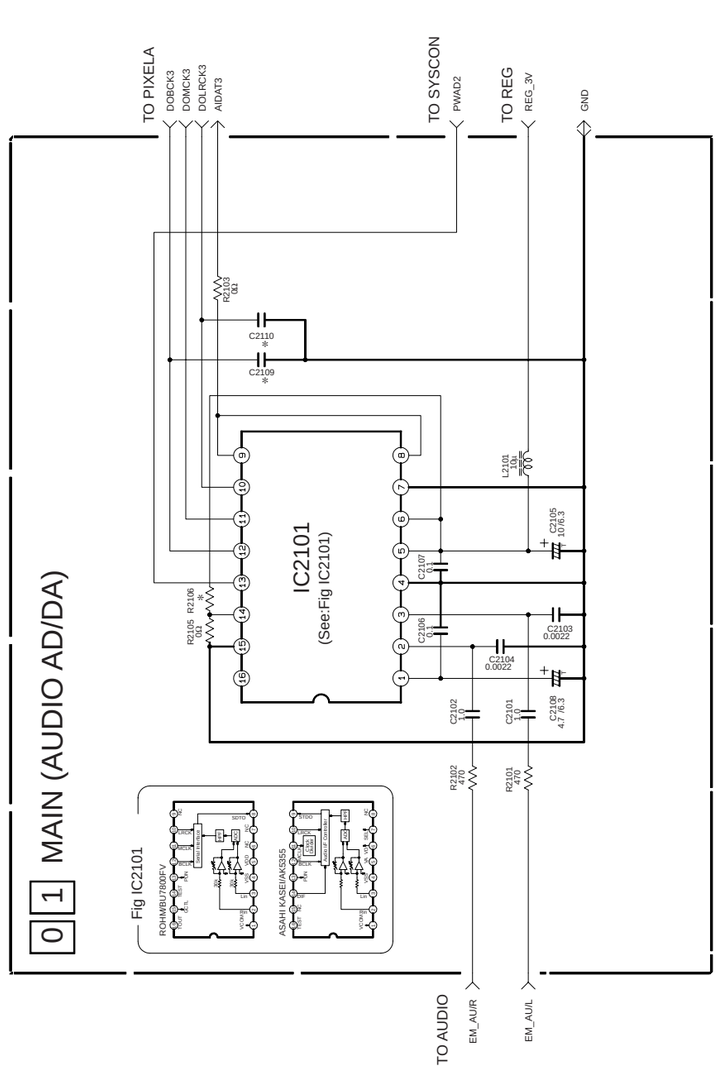
LAST No.	VACANT No.
R	2103
C	2111
IC	2101
L	2101
Q	—
D	—

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC
TANTAL

NOTE : The parts with marked (*) is not used.

y30239001a_rev0

4.12 MAIN(AUDIO AD/DA) SCHEMATIC DIAGRAM [FOR without DSC MODEL]



VACANT No.(NO&WEAR)

SYMBOL No. 2101~ 2199

VACANT No.

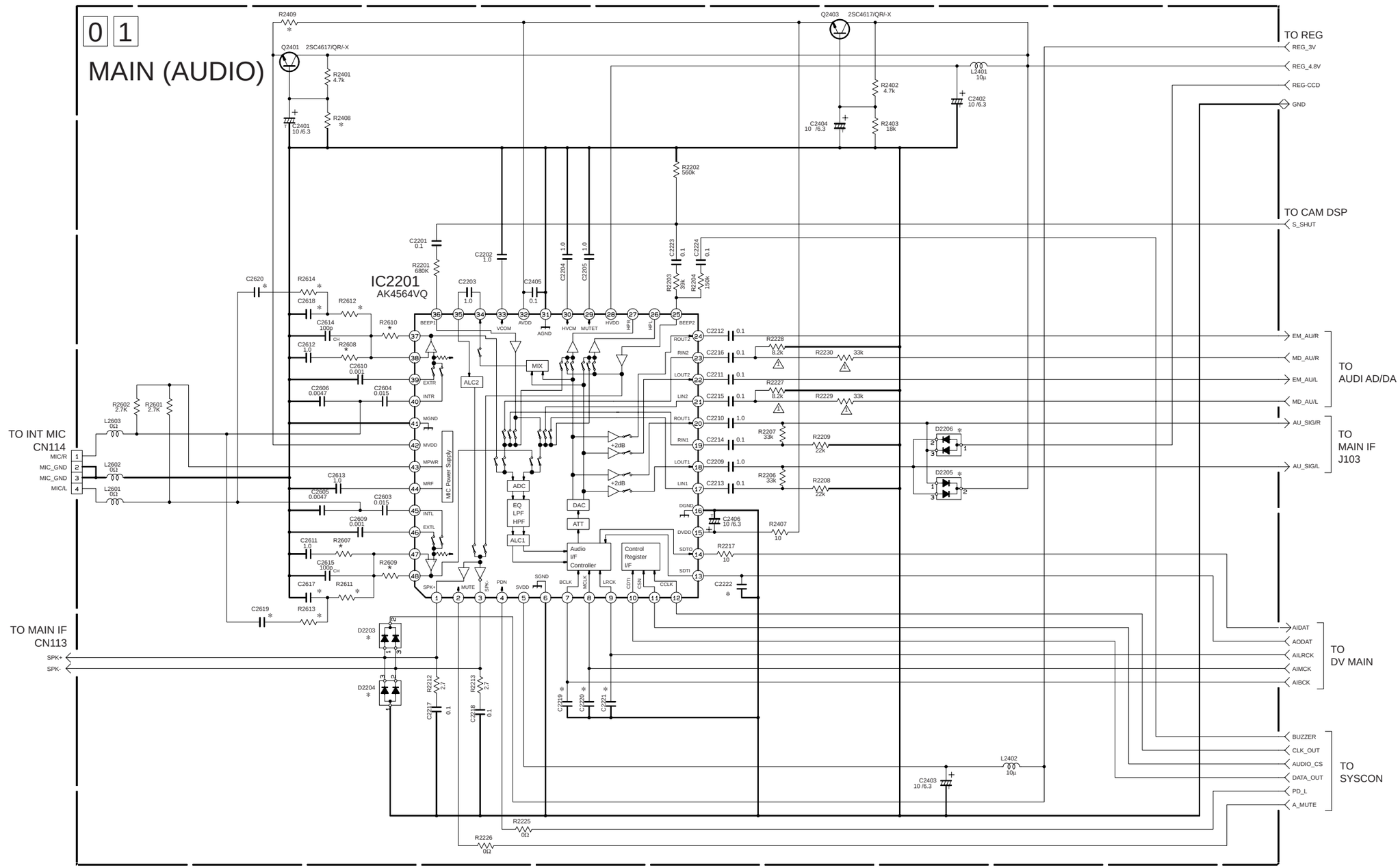
LAST No.	VACANT No.
R	2106
C	2110
IC	2101
L	2101
Q	—
D	—

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC
TANTAL

NOTE : The parts with marked (*) is not used.

y30240001a_rev0

4.13 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

* VALUE CHANGE

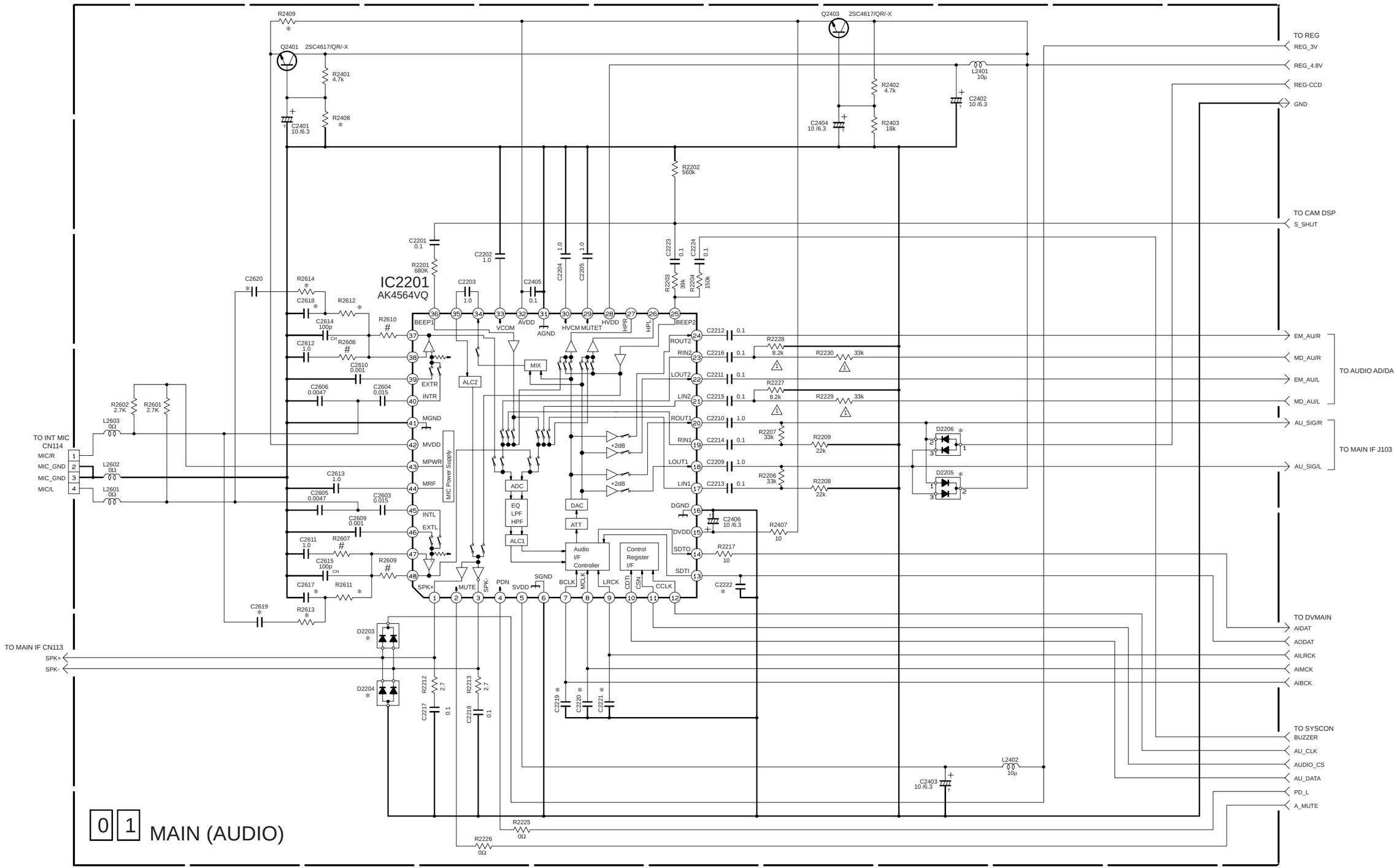
*	NTSC	PAL
R2607	2.2K	22K
R2608	2.2K	22K
R2609	22K	220K
R2610	22K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No.(NO MWEAR)
R	2614	2205 2210-2211 2214-2216 2218-2224 2231-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20271001a_rev0

4.14 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

EXCHANGE PARTS LIST

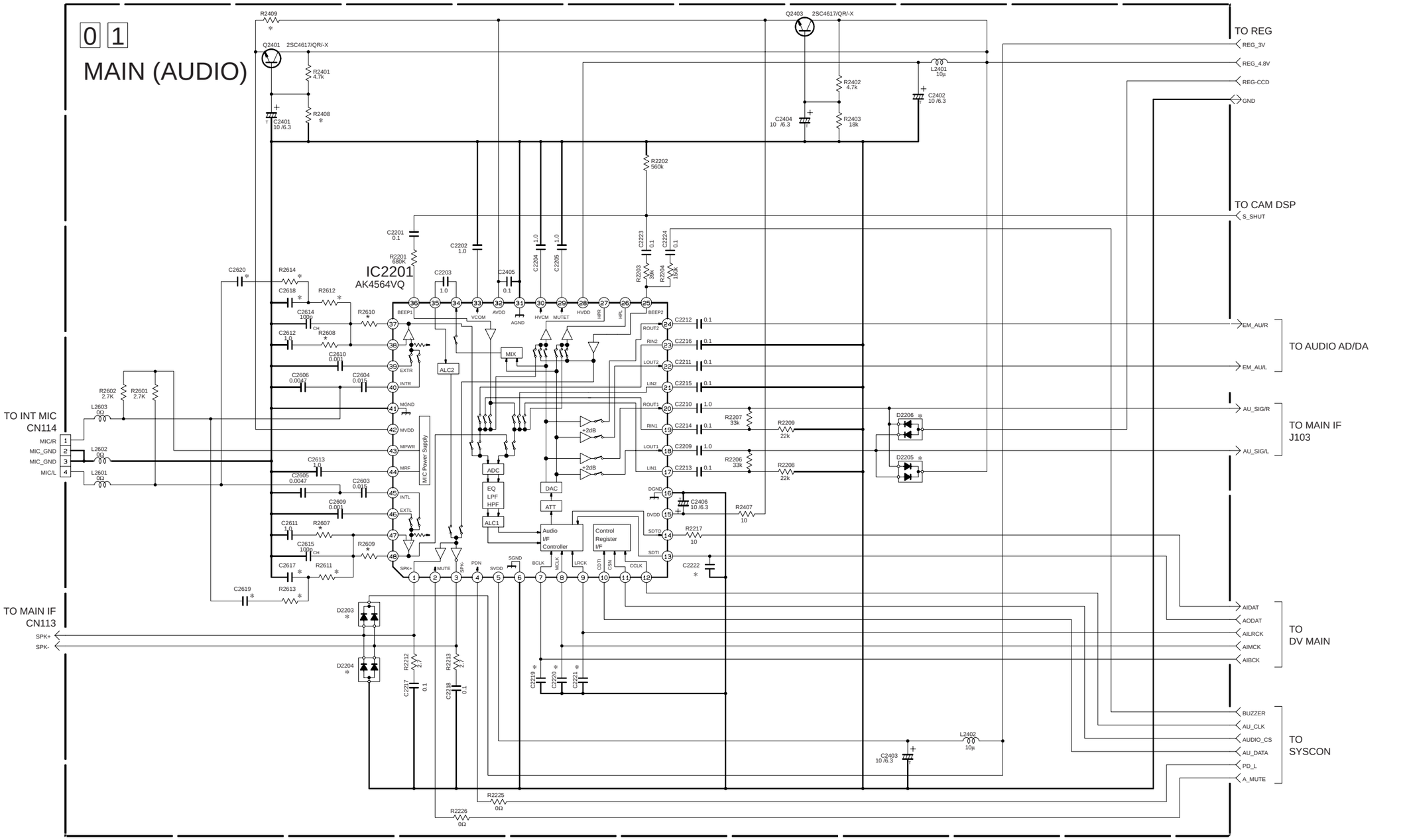
	R2607	R2608	R2609	R2610
NTSC	2.2K	2.2K	22K	22K
PAL	22K	22K	220K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No. (* NOT USED)
R	2614	2205 2210-2211 2214-2216 2218-2224 2231-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20269001a_rev0

4.15 MAIN(AUDIO) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
CERAMIC TANTAL

∗ VALUE CHANGE

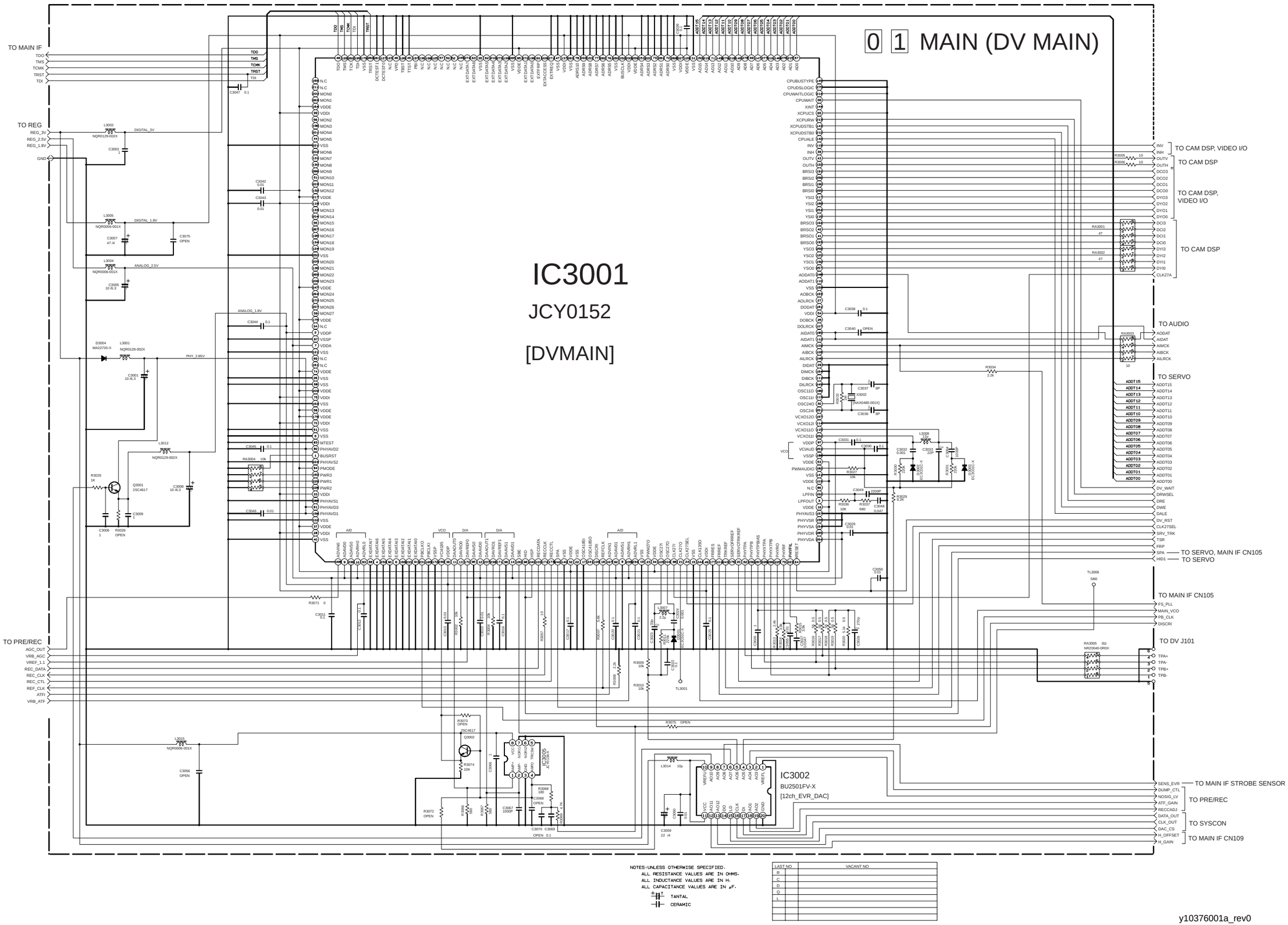
∗	NTSC	PAL
R2607	2.2K	22K
R2608	2.2K	22K
R2609	22K	220K
R2610	22K	220K

SYMBOL No. 2201-2699

LAST No.		VACANT No.	VACANT No.(NO MEAR)
R	2614	2205 2210-2211 2214-2216 2218-2224 2227-2400 2404-2406 2410-2600 2603-2606	2611-2614 2408-2409
C	2620	2206-2208 2225-2400 2407-2602 2616	2219-2222 2617-2620
IC	2201		
L	2603	2201-2400 2403-2600	
Q	2403	2201-2400 2402	
D	2206	2201-2202	2203-2206

y20270001a_rev0

4.16 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]

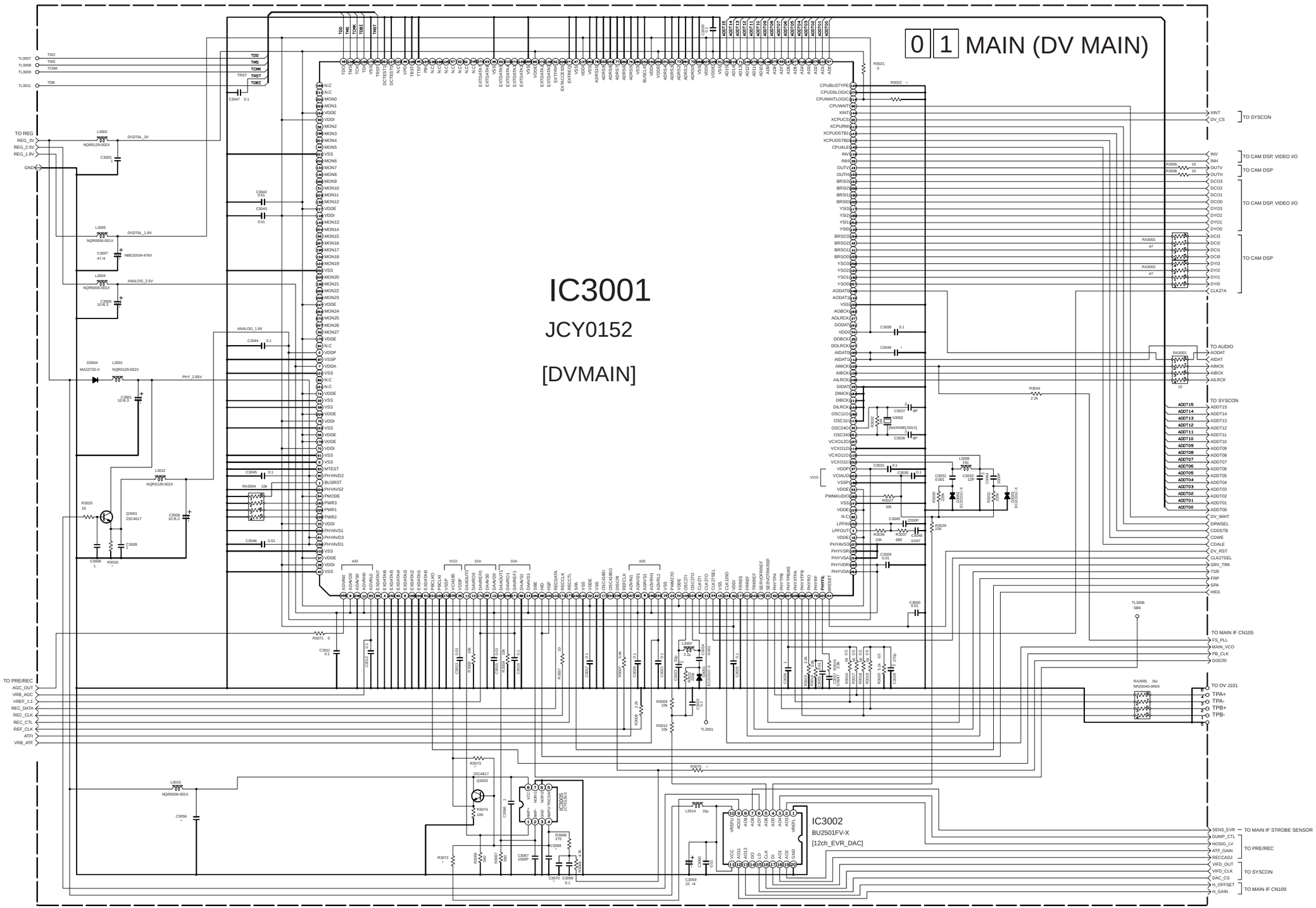


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y10376001a_rev0

4.17 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]

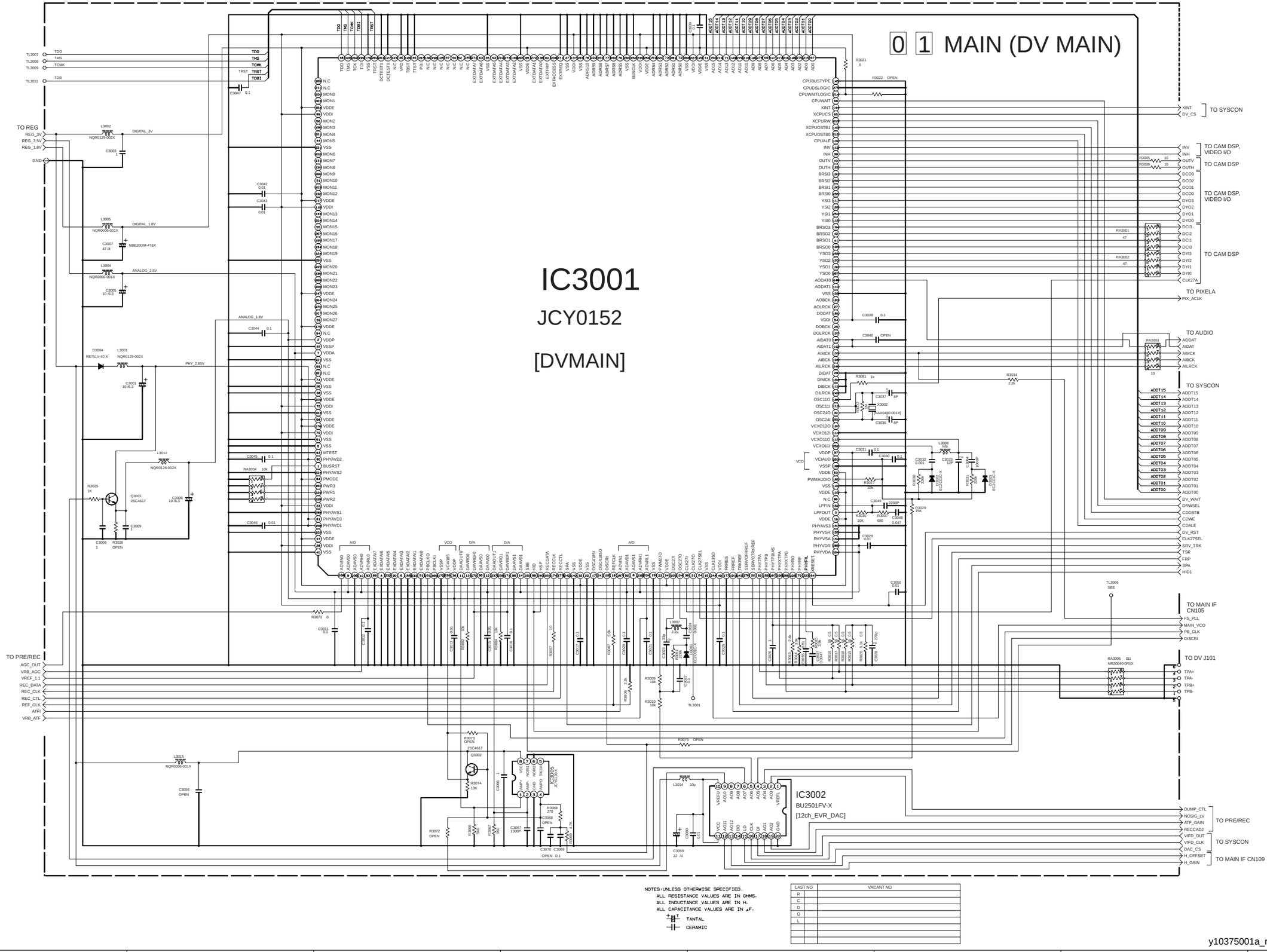


NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

y10374001a_rev0

4.18 MAIN(DV MAIN) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL withput DSC MODEL]

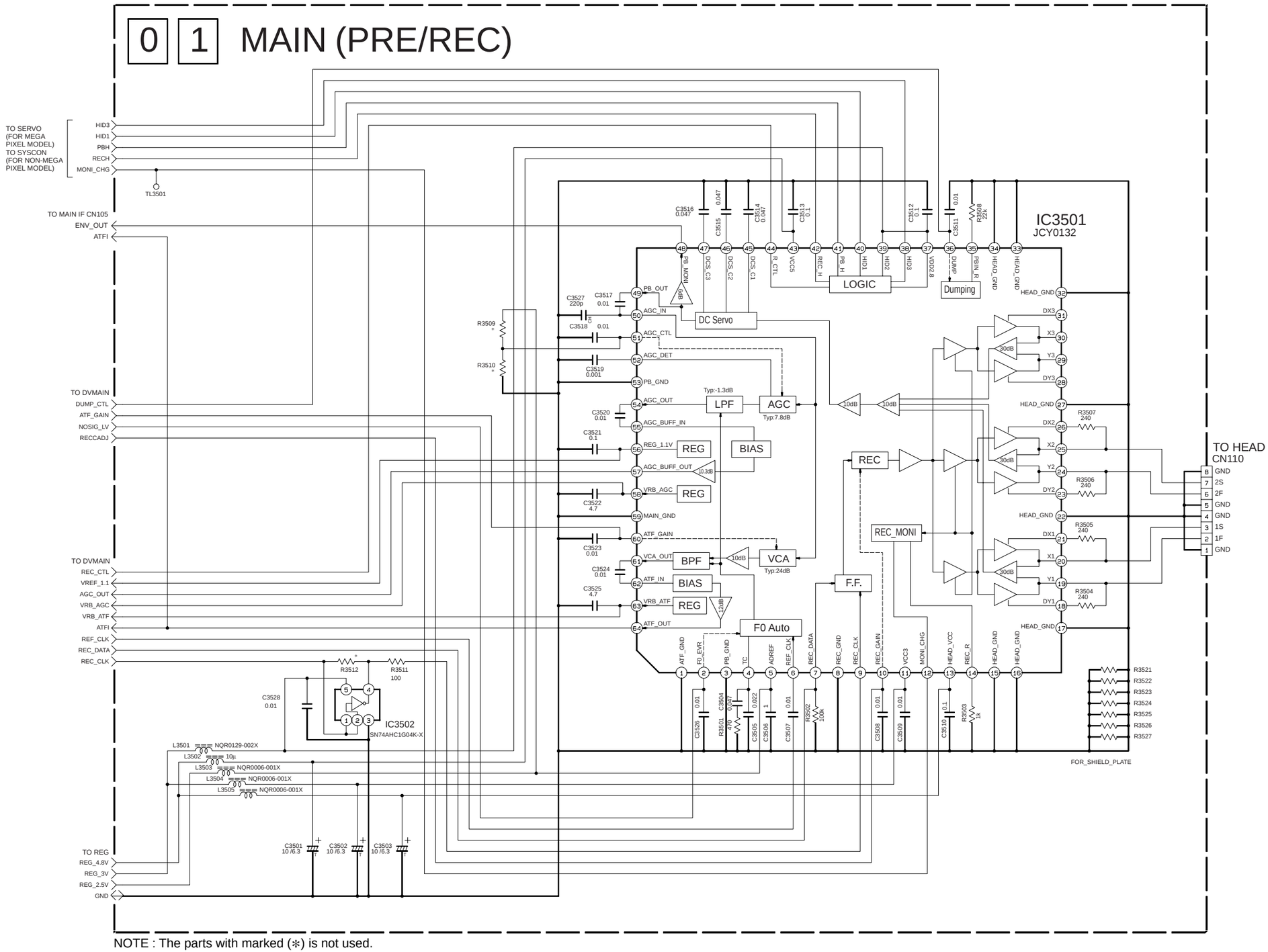


NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y10375001a_rev0

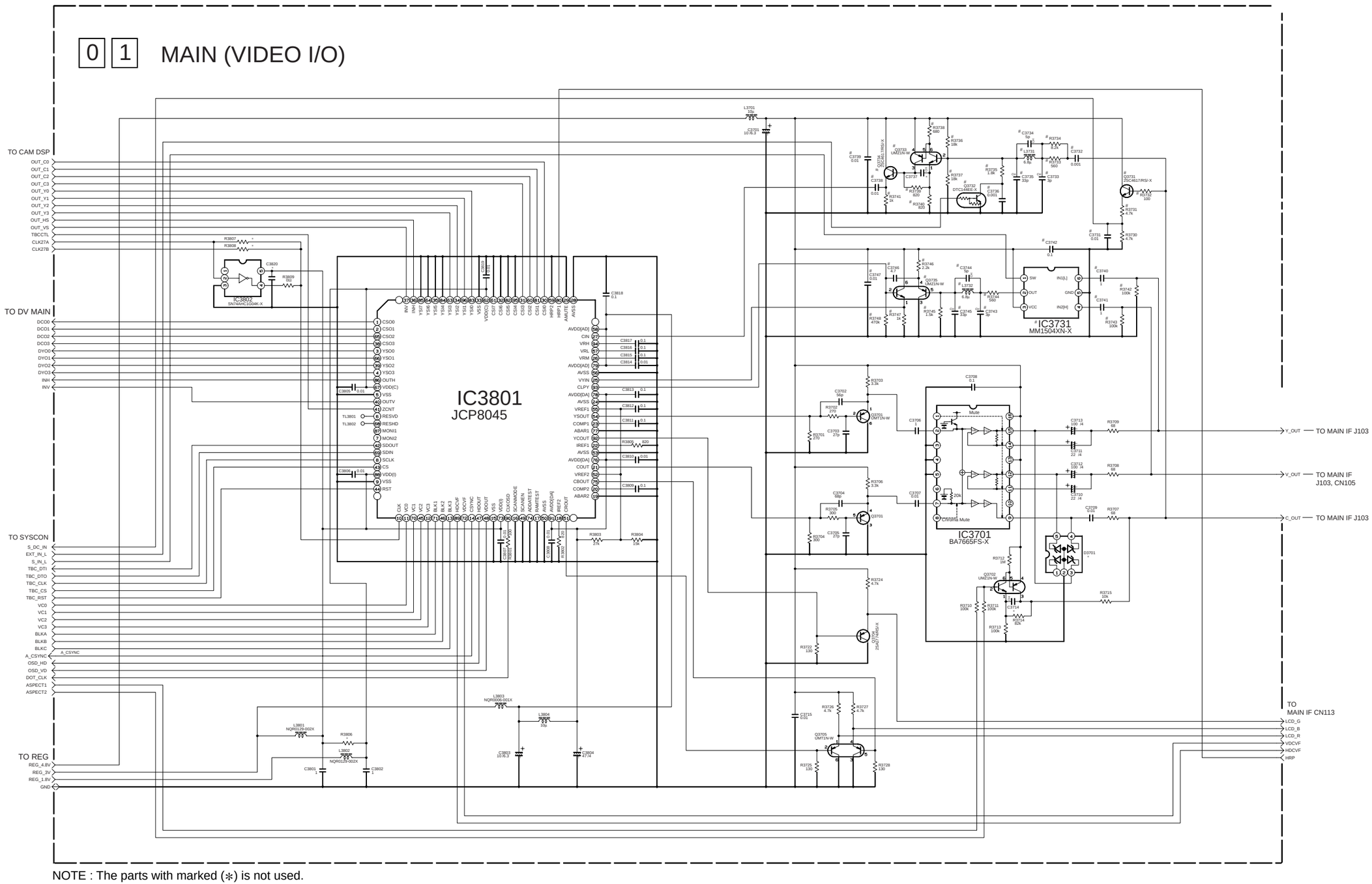
4.19 MAIN(PRE/REC) SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

y20272001a_rev0

4.20 MAIN(VIDEO I/O) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (⁎) is not used.

#: EXCHANGE PARTS LIST

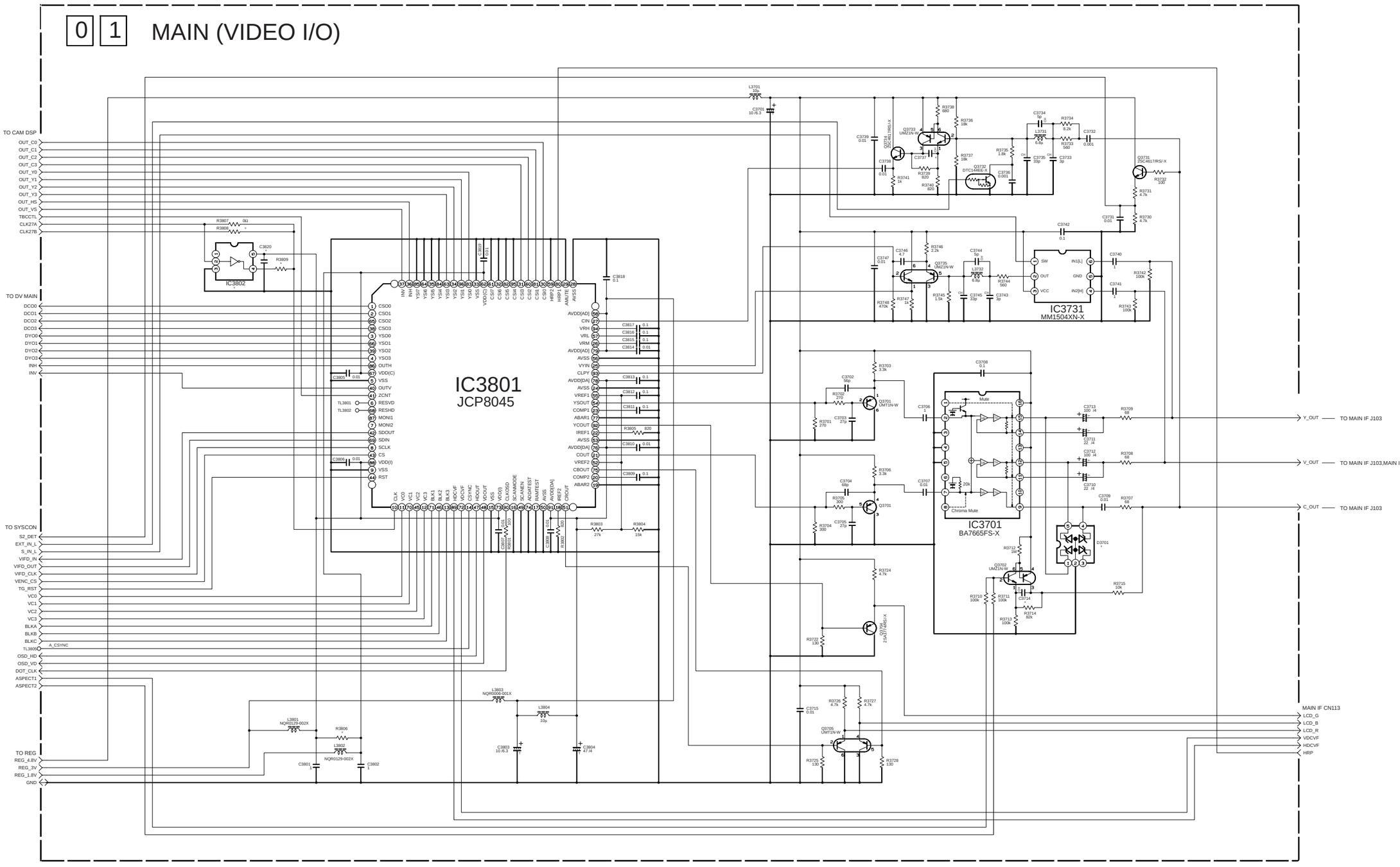
	WITH ANALOG INPUT	WITHOUT ANALOG INPUT
IC3731	WARE	NO WARE
Q3731-Q3735	WARE	NO WARE
L3731,L3732	WARE	NO WARE
R3731-R3748	WARE	NO WARE
C3731-C3747	WARE	NO WARE

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	
C	
D	
Q	
L	

y20274001a_rev0

4.21 MAIN(VIDEO I/O) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



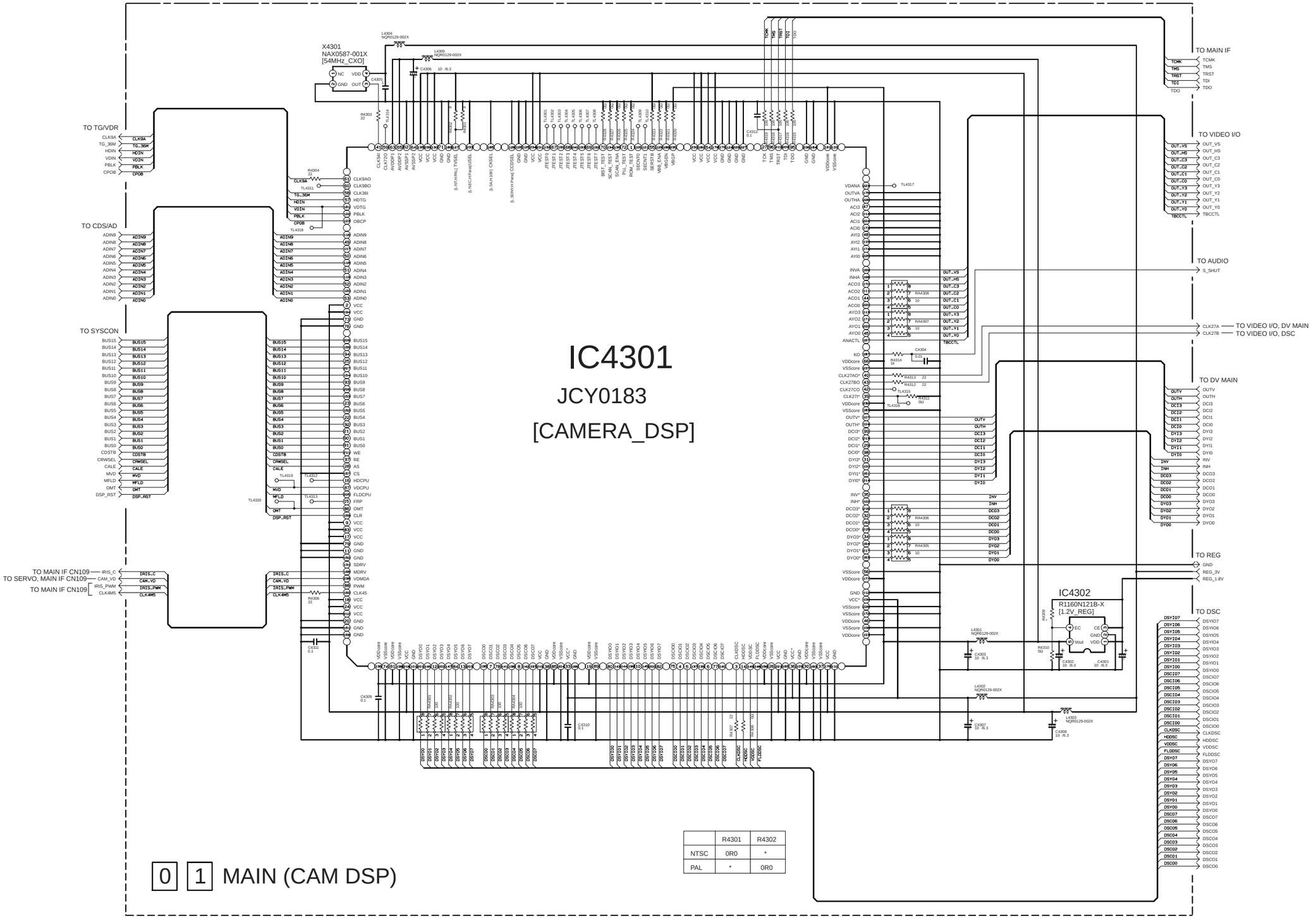
NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO		VACANT NO
R		
C		
D		
Q		
L		

y20273001a_rev0

4.22 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



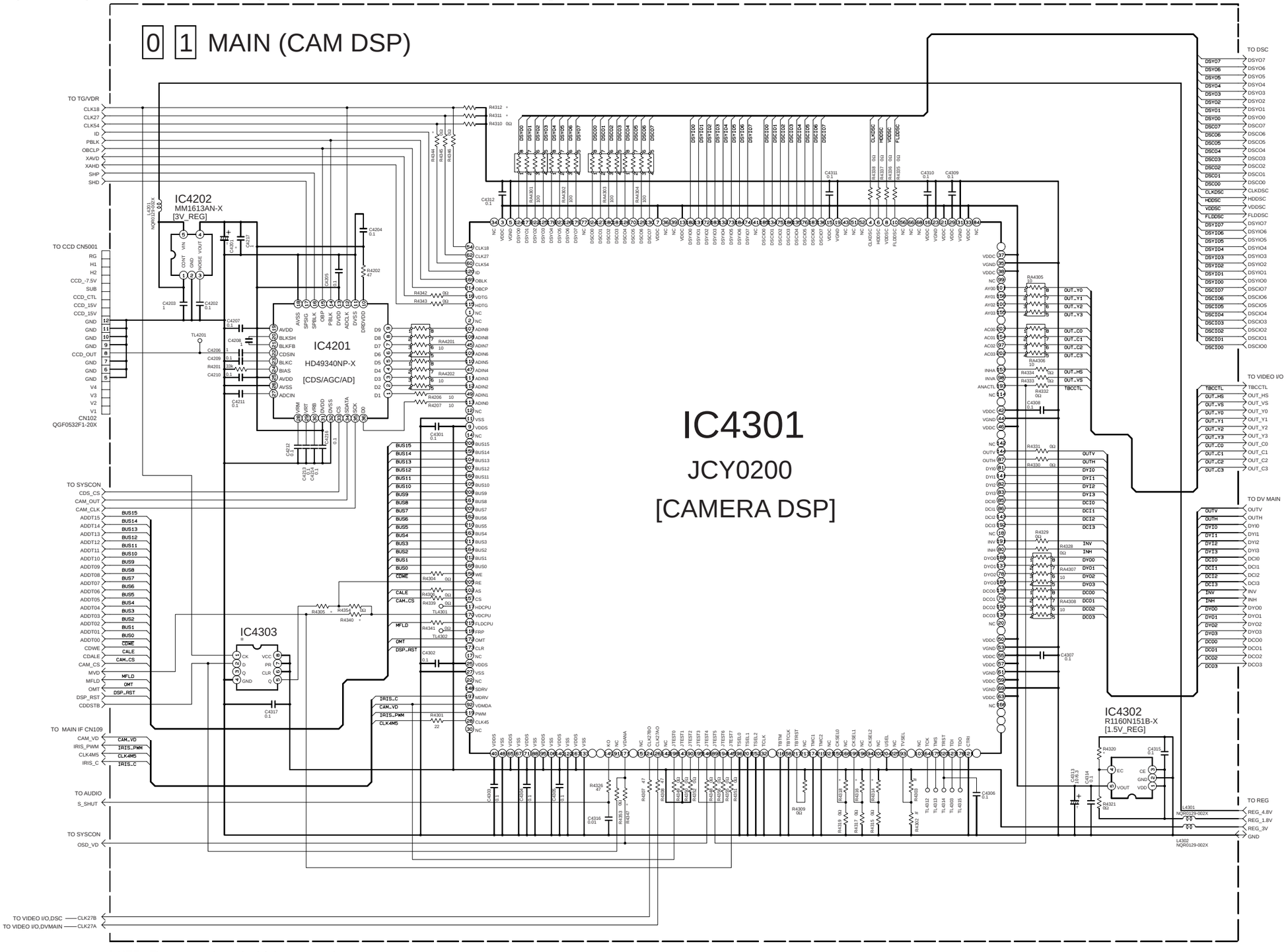
	R4301	R4302
NTSC	0R0	*
PAL	*	0R0

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO	VACANT NO
R	4328 4305
C	4312
RA	4308
IC	4302
L	4305
X	4301

y10379001a_rev0

4.23 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]



NOTE : The parts with marked (∗) is not used.

	R4302	R4303
NTSC	0Ω	OPEN
PAL	OPEN	0Ω

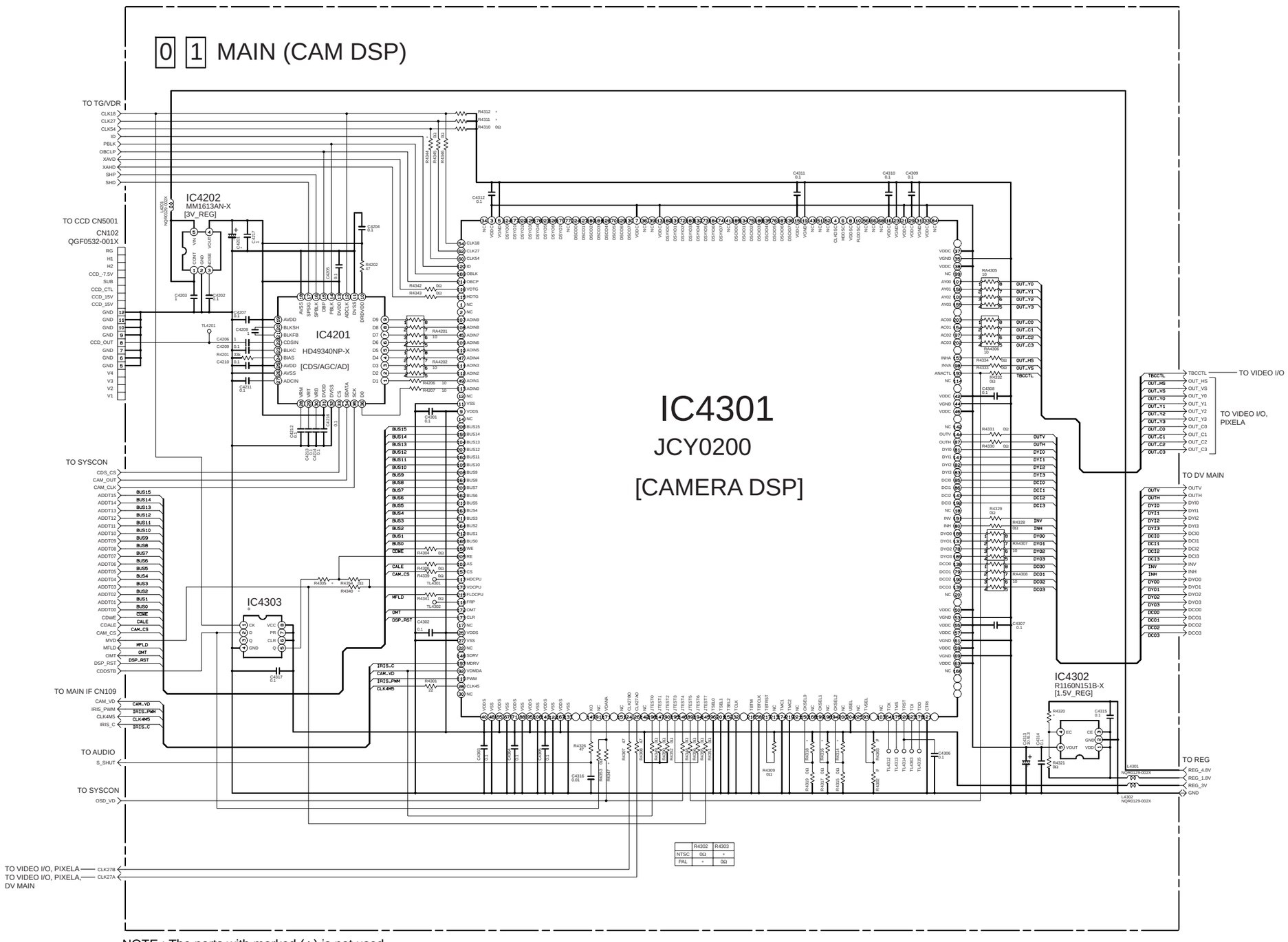
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

	CDS/AD		CAMDSP	
	LAST NO	VACANT NO	LAST NO	VACANT NO
R	4207	4203-4205	4356	4313 4322-4325 4327
C	4217	4215	4317	
L	4201		4302	
IC	4202		4303	
RA	4202		4308	
CN	102			

y10377001a_rev0

4.24 MAIN(CAM DSP) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



	R4302	R4303
NTSC	0Ω	*
PAL	*	0Ω

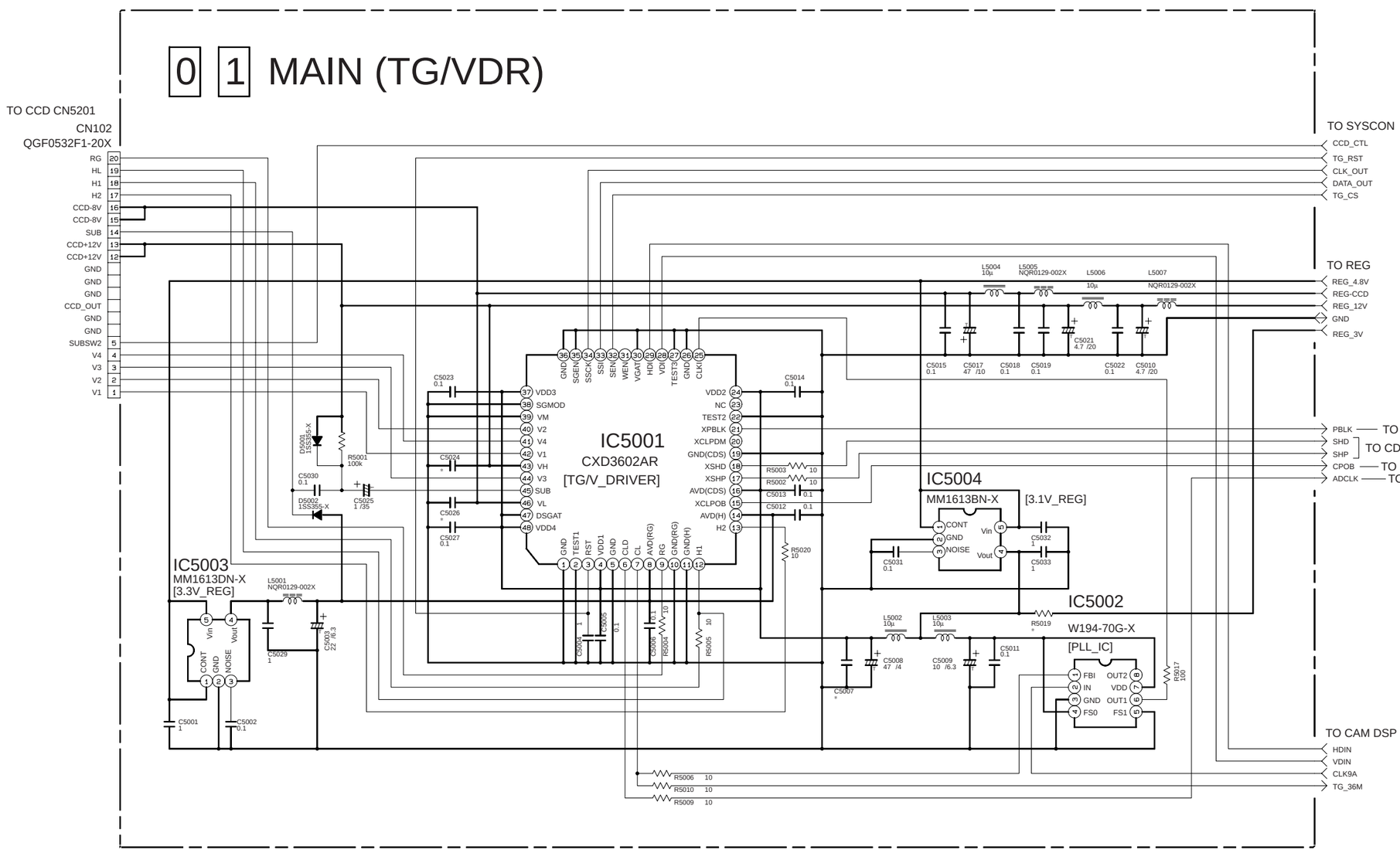
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

	CDS/AD		CAMDSP	
	LAST NO	VACANT NO	LAST NO	VACANT NO
R	4207	4203-4205	4356	4313 4322-4325 4327 4335-4338
C	4217	4215	4317	
L	4201		4302	
IC	4202		4303	
RA	4202		4308	4301-4304
CN	102			

y10378001a_rev0

4.25 MAIN(TG/VDR) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



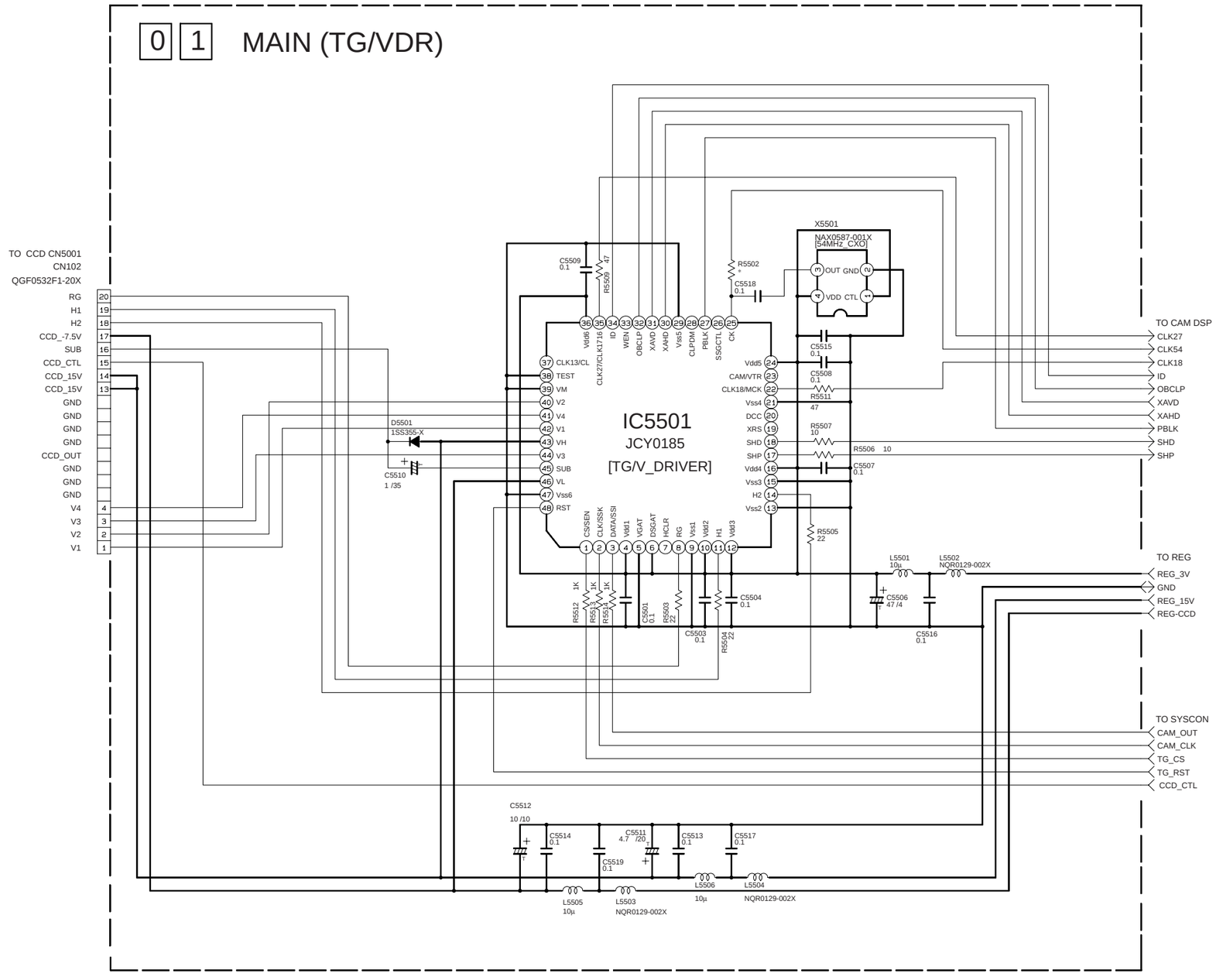
NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
R	5020	5007-5008 5011-5016 5018
C	5033	5016 5020 5028
D	5002	
IC	5004	
L	5007	

y20276001a_rev0

4.26 MAIN(TG/VDR) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



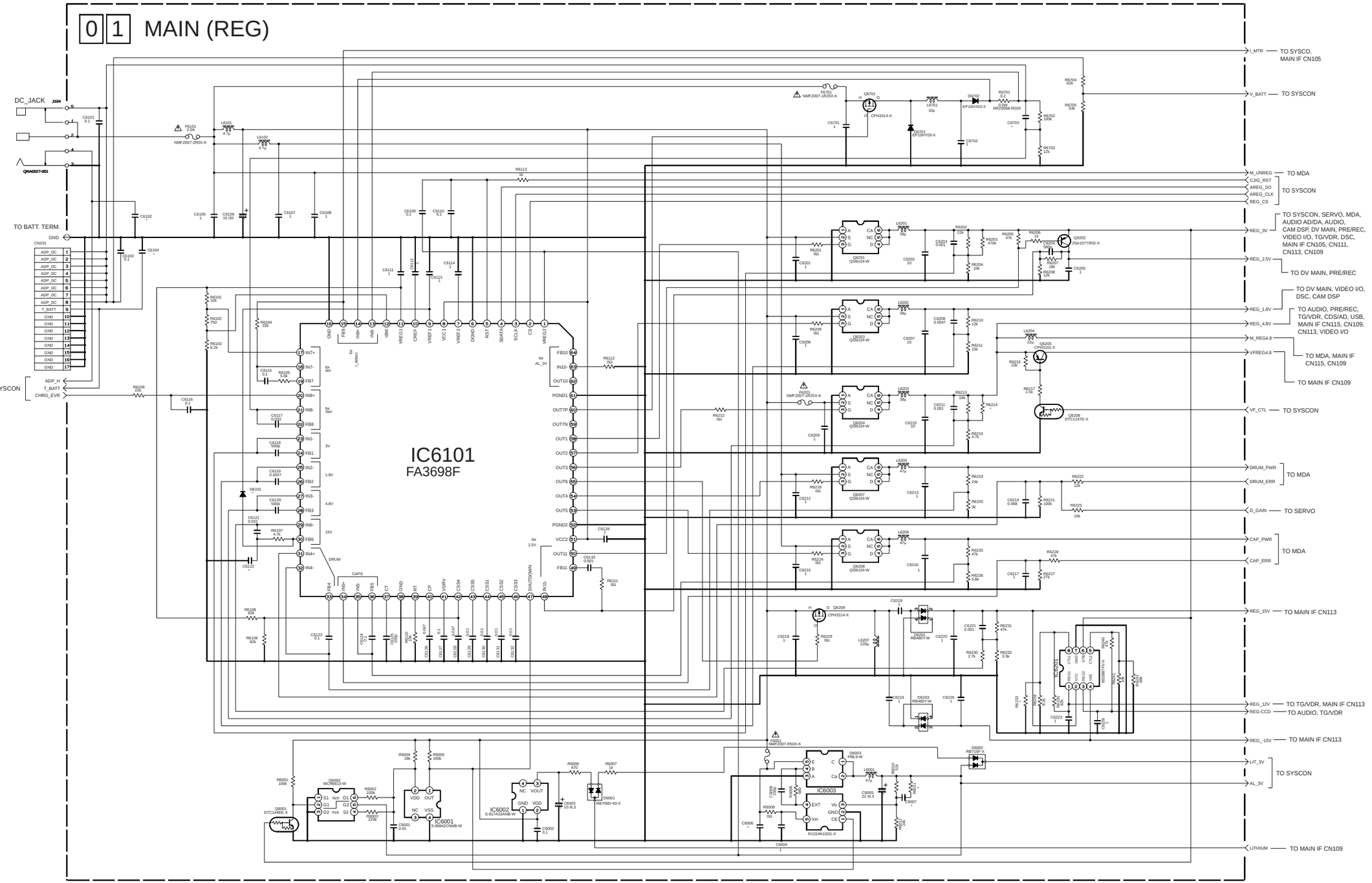
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

LAST NO		VACANT NO
R	5514	5501 5508 5510
C	5519	5502 5505
D	5501	
L	5506	
IC	5501	
X	5501	

4.27 MAIN(REG) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



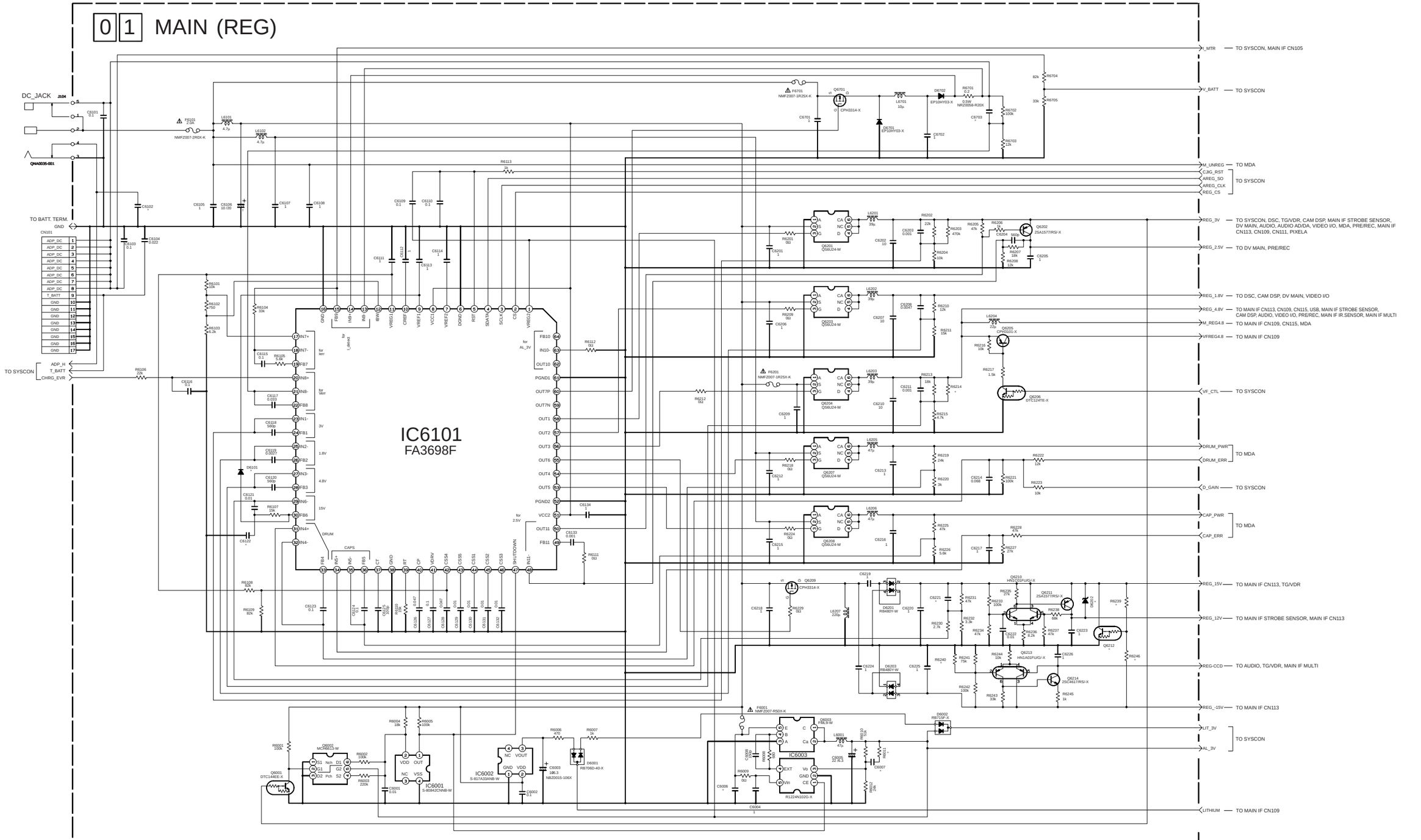
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
TANTAL

LAST NO	VACANT NO
R	6705	1-6000, 6013-6100, 6114-6200, 6236-6239, 6243-6700
C	6703	1-6000, 6009-6100, 6135-6200, 6222,6227-6700
D	6702	1-6000, 6003-6100, 6102-6200, 6202,6204-6700
Q	6701	1-6000, 6004-6200, 6210-6700
L	6701	1-6000, 6002-6100, 6103-6200, 6208-6700

y10381001a_rev0

4.28 MAIN(REG) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]


01 MAIN (REG)
IC6101
FA3698F
IC6002
S-817A33ANB-W
IC6001
S-8084ZCNNB-W
IC6003
R1224N102G-X
DC_JACK J104
QNA0035-001
TO BATT. TERM.
GND
CN101
TO SYSCON
ADP_H
T_BATT
CHRG_EVR
I_MTR — TO SYSCON, MAIN IF CN105
V_BATT — TO SYSCON
M_UNREG — TO MDA
CJG_RST
AREG_SO
AREG_CLK
REG_CS — TO SYSCON
REG_3V — TO SYSCON, DSC, TG/VDR, CAM DSP, MAIN IF STROBE SENSOR, DV MAIN, AUDIO, AUDIO AD/DA, VIDEO I/O, MDA, PRE/REC, MAIN IF CN113, CN109, CN111, PIXELA
REG_2.5V — TO DV MAIN, PRE/REC
REG_1.8V — TO DSC, CAM DSP, DV MAIN, VIDEO I/O
REG_4.8V — TO MAIN IF CN113, CN109, CN115, USB, MAIN IF STROBE SENSOR, CAM DSP, AUDIO, VIDEO I/O, PRE/REC, MAIN IF IR.SENSOR, MAIN IF MULTI
M_REG4.8 — TO MAIN IF CN109, CN115, MDA
VFREG4.8 — TO MAIN IF CN109
VF_CTL — TO SYSCON
DRUM_PWR
DRUM_ERR — TO MDA
D_GAIN — TO SYSCON
CAP_PWR
CAP_ERR — TO MDA
REG_15V — TO MAIN IF CN113, TG/VDR
REG_12V — TO MAIN IF STROBE SENSOR, MAIN IF CN113
REG-CCD — TO AUDIO, TG/VDR, MAIN IF MULTI
REG_-15V — TO MAIN IF CN113
LIT_3V
AL_3V — TO SYSCON
LITHIUM — TO MAIN IF CN109

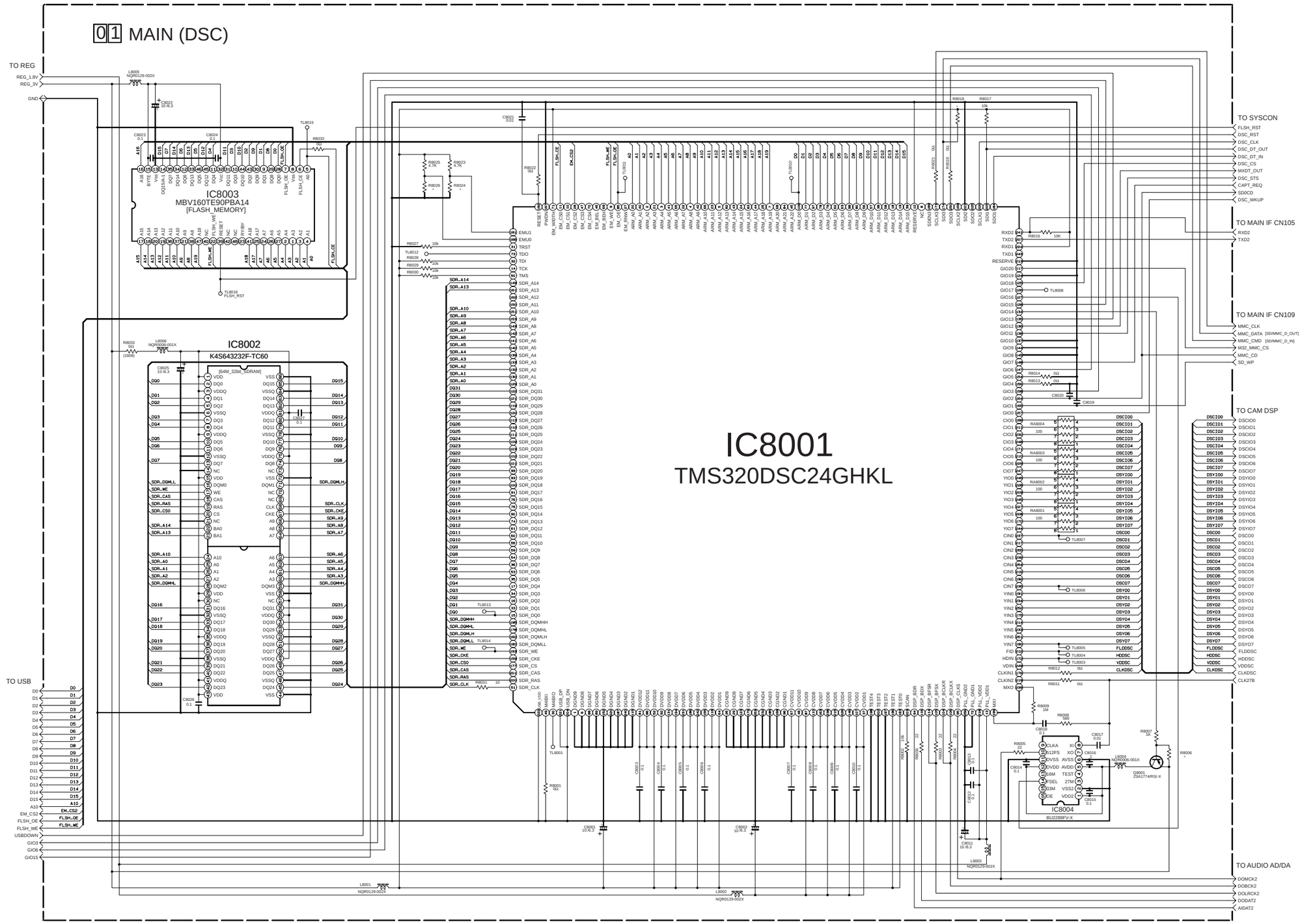
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R 6705	1-6000, 6013-6100, 6114-6200, 6247-6700
C 6703	1-6000, 6009-6100, 6135-6200, 6227-6700
D 6702	1-6000, 6003-6100, 6102-6200, 6204-6700
Q 6701	1-6000, 6004-6200, 6215-6700
L 6701	1-6000, 6002-6100, 6103-6200, 6208-6700

y10380001a_rev0

4.29 MAIN(DSC) SCHEMATIC DIAGRAM [FOR MEGA PIXEL with DSC MODEL]



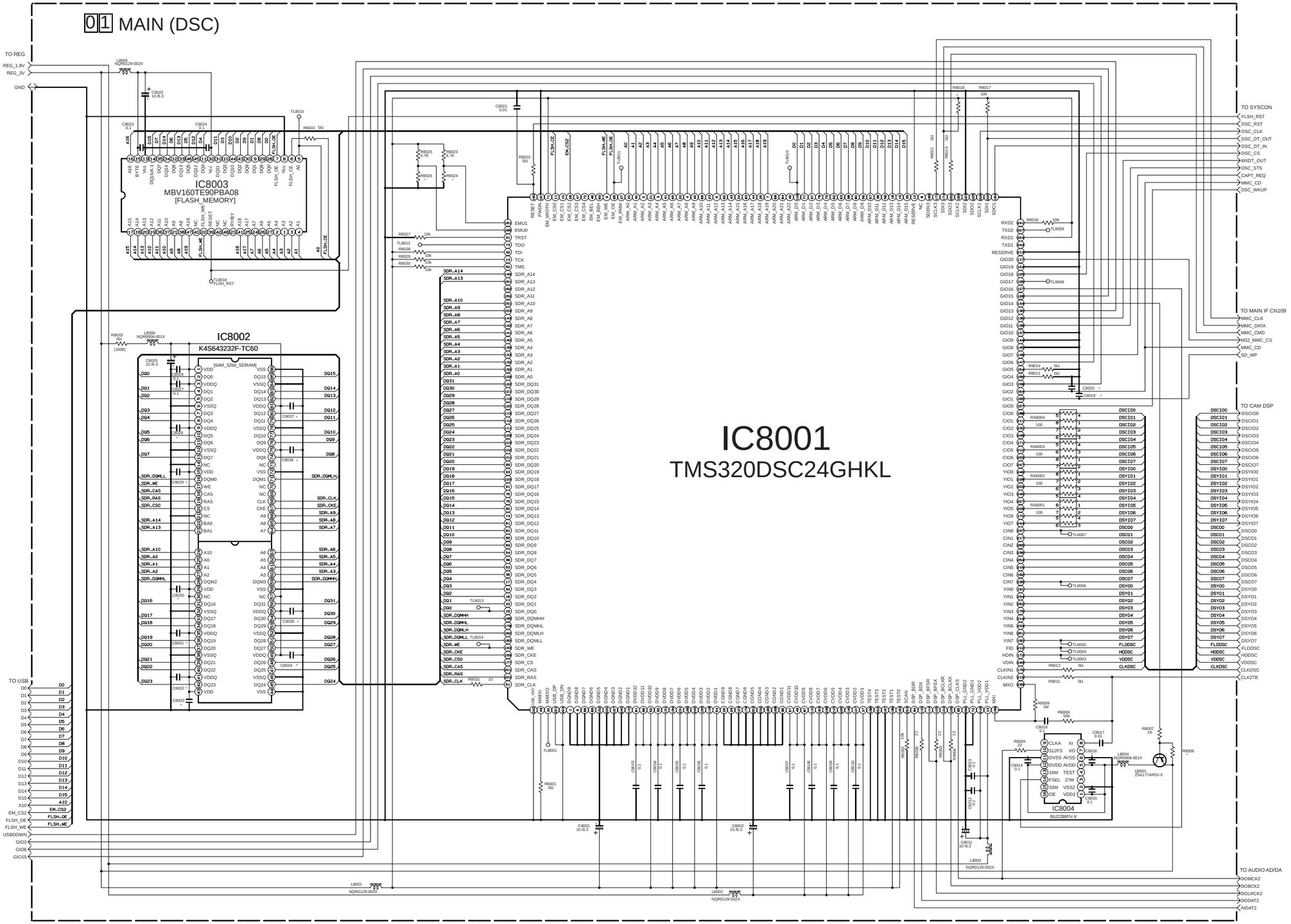
NOTE : The parts with marked (*) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO	VACANT NO
R	8036	8010, 8015, 8020, 8034, 8035
C	8027	
Q	8001	
L	8006	
RA	8004	
IC	8004	

y10386001a_rev0

4.30 MAIN(DSC) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL with DSC MODEL]

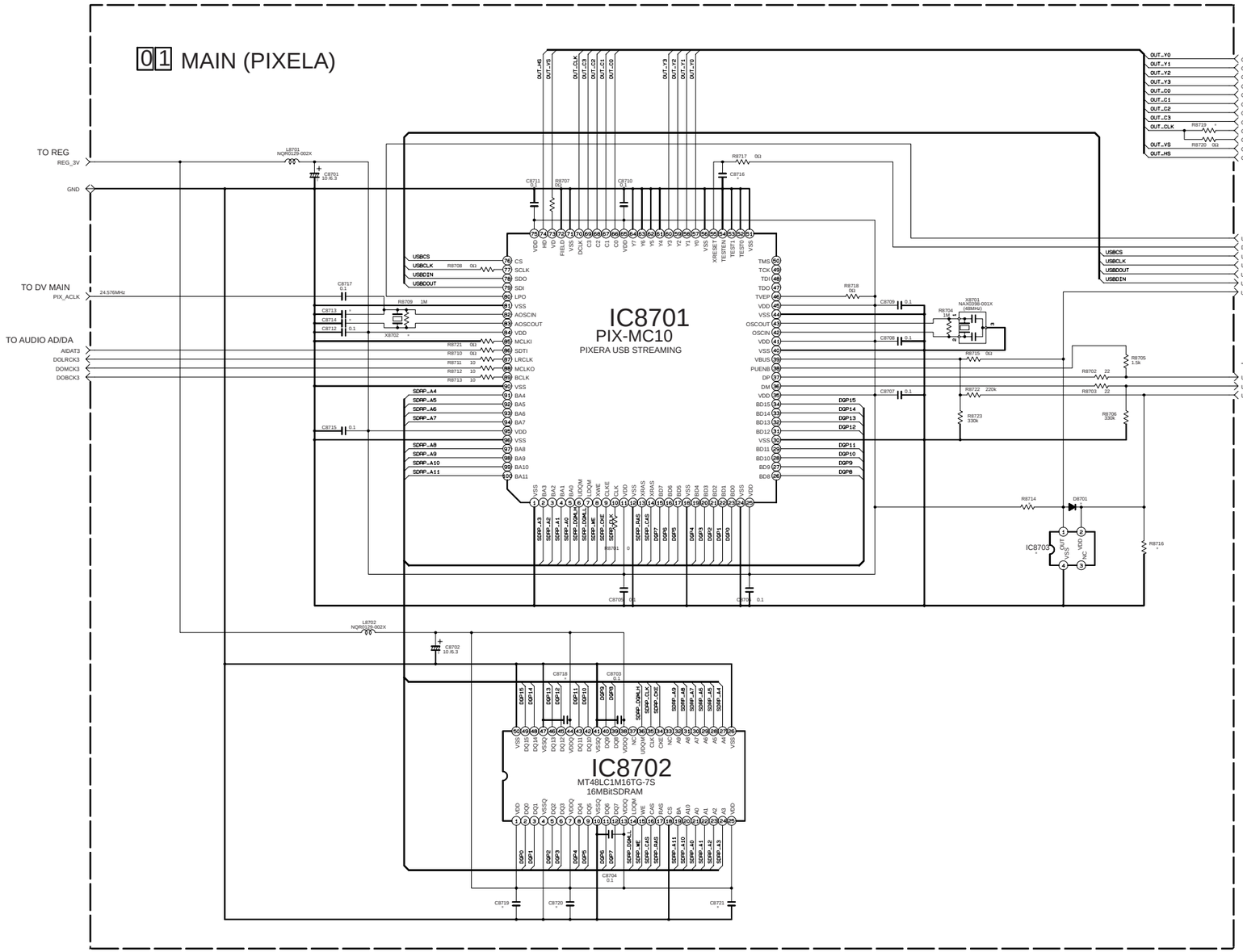


NOTES·UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

LAST NO		VACANT NO
R	8036	8010, 8015, 8020, 8034, 8035
C	8037	
Q	8001	
L	8006	
RA	8004	
IC	8004	

y10382001a_rev0

4.31 MAIN(PIXELA) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL without DSC MODEL]



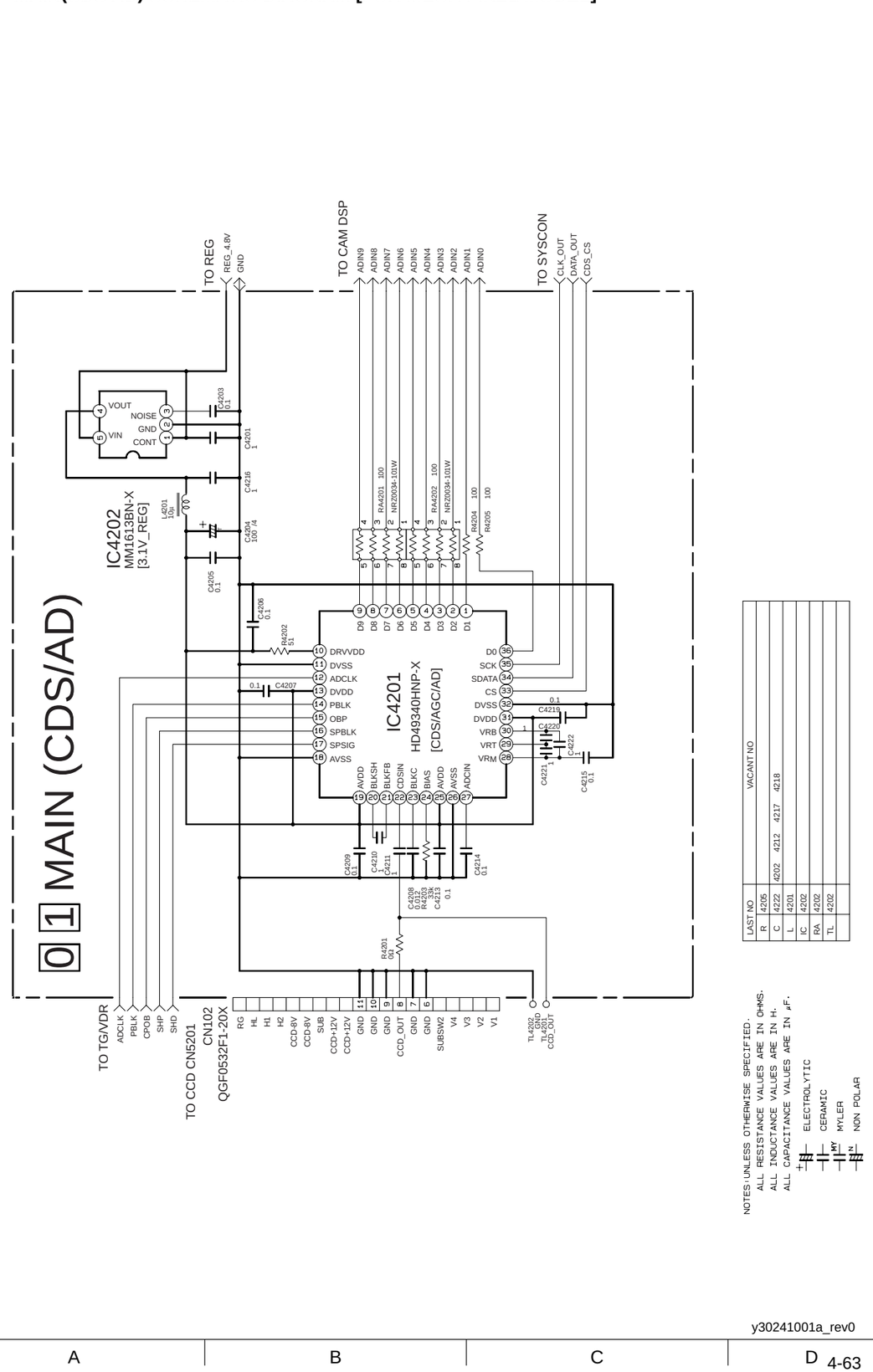
NOTE : The parts with marked (⁎) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC
NO WEAR

LAST NO	VACANT NO
R	8723
C	8721
D	8701
L	8702
X	8702
IC	8703

y10383001a_rev0

4.32 MAIN(CDS/AD) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



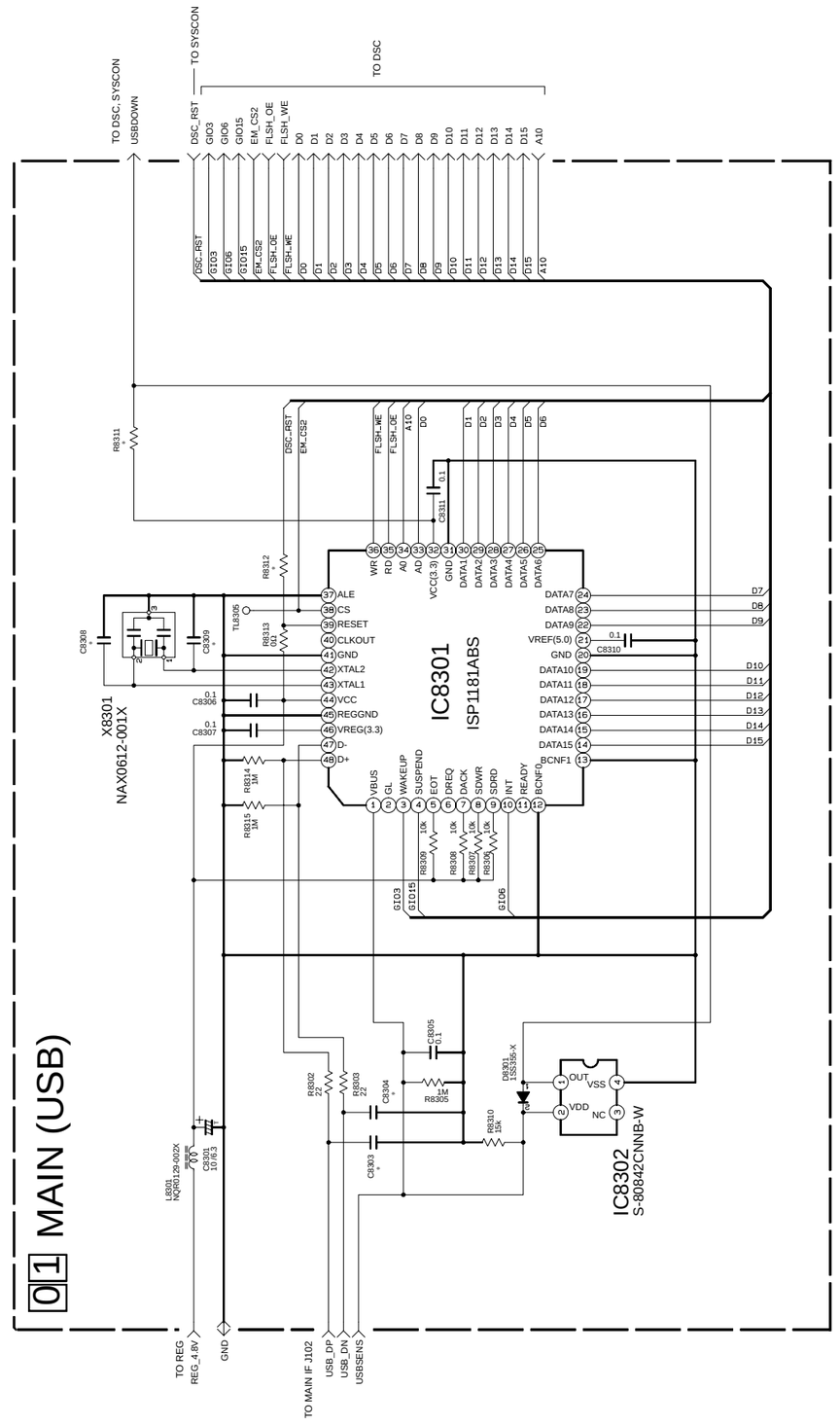
VACANT NO							
LAST NO							
R	4205						
C	4222	4202	4212	4217	4218		
L	4201						
IC	4202						
RA	4202						
TL	4202						

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MYLER
NON POLAR

y30241001a_rev0

4.33 MAIN(USB) SCHEMATIC DIAGRAM [FOR USB MODEL]

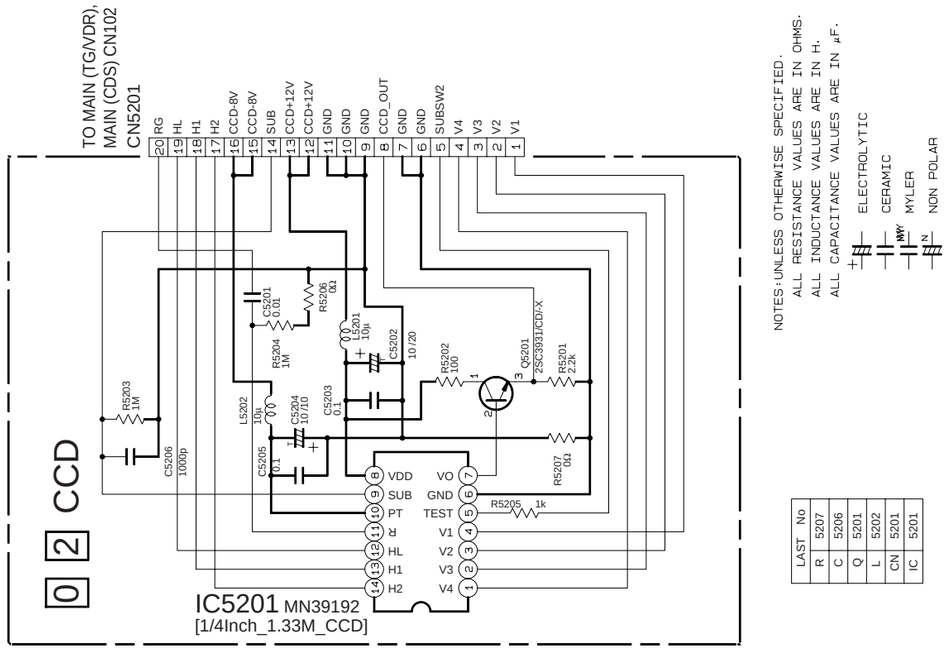


NOTE : The parts with marked (∗) is not used.

y20255001a_rev0

4.34 CCD SCHEMATIC DIAGRAM
[FOR MEGA PIXEL]

NOTE: ● *IC5201 is incorporated in the CCD base assembly. When IC5201 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*

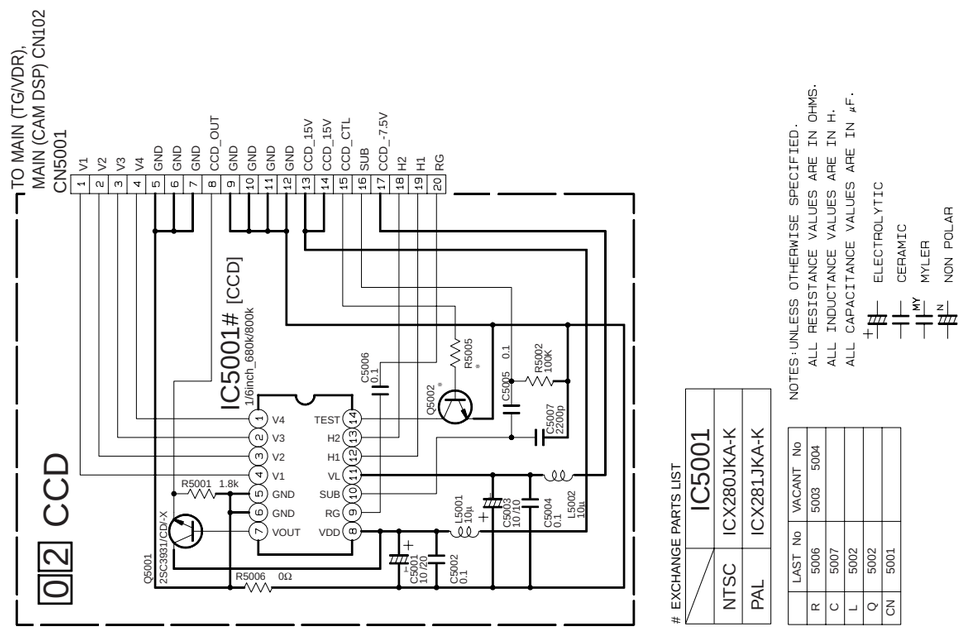


LAST No	
R	5207
C	5206
Q	5201
L	5202
CN	5201
IC	5201

y40111001a_rev0

[FOR NON-MEGA PIXEL]

NOTE: ● *IC5001 is incorporated in the CCD base assembly. When IC5001 needs replacement, replace the CCD base assembly in whole because it cannot be replaced alone.*



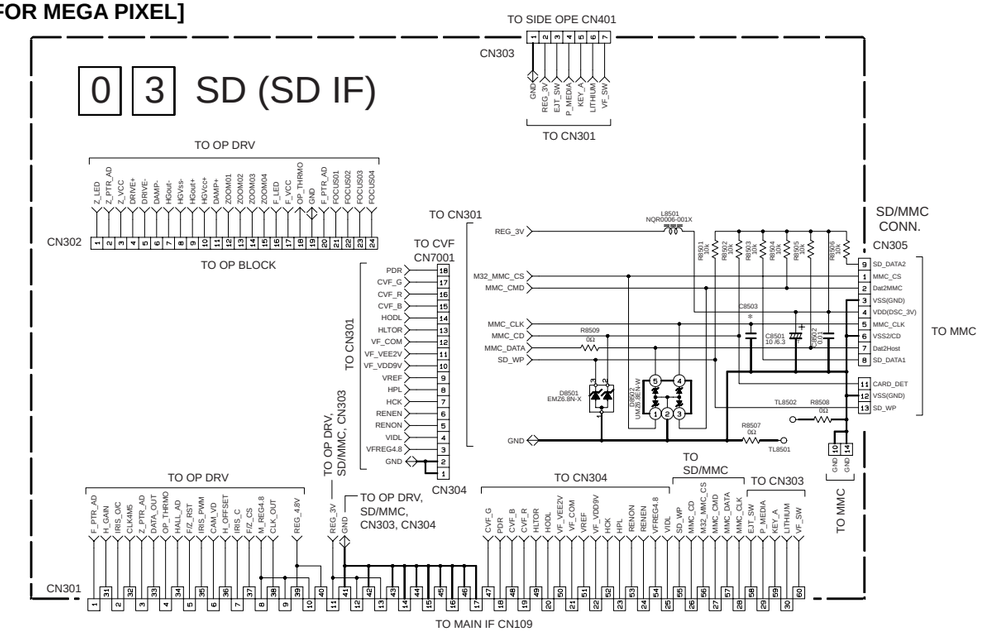
# EXCHANGE PARTS LIST	IC5001
NTSC	ICX280JKA-K
PAL	ICX281JKA-K

	LAST No	VACANT No
R	5006	5003 5004
C	5007	
L	5002	
Q	5002	
CN	5001	

NOTE : The parts with marked (∗) is not used.

y40110001a_rev0

4.35 SD(SD IF) SCHEMATIC DIAGRAM
[FOR MEGA PIXEL]



NOTE : The parts with marked (∗) is not used.

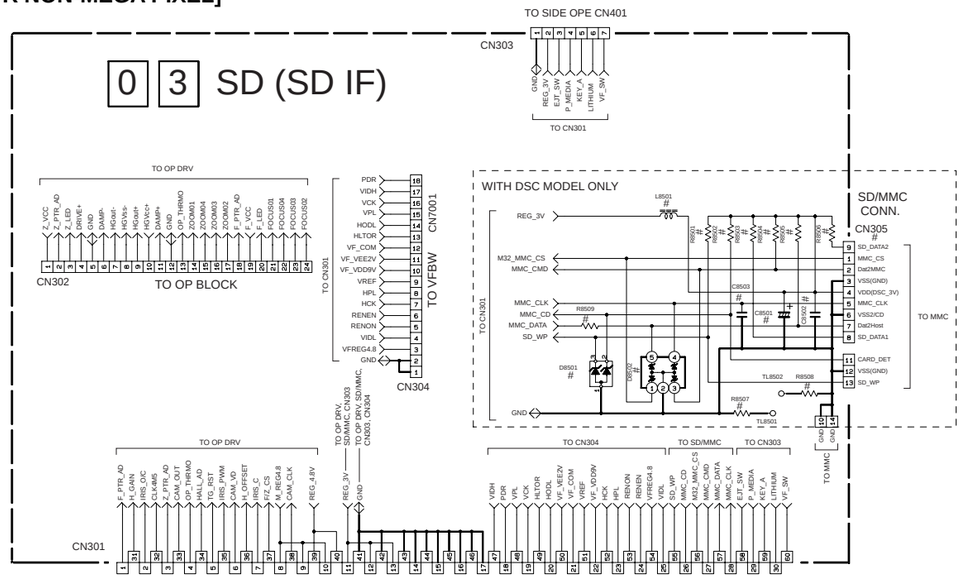
y30243001a_rev0

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
CERAMIC TANTAL

Symbol No. 8501~8600

LAST NO	VACANT NO
R	8509
C	8503
D	8502
L	8501

[FOR NON-MEGA PIXEL]



NOTE : The parts with marked (∗) is not used.

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN µF.
CERAMIC TANTAL

Symbol No. 8501~8600

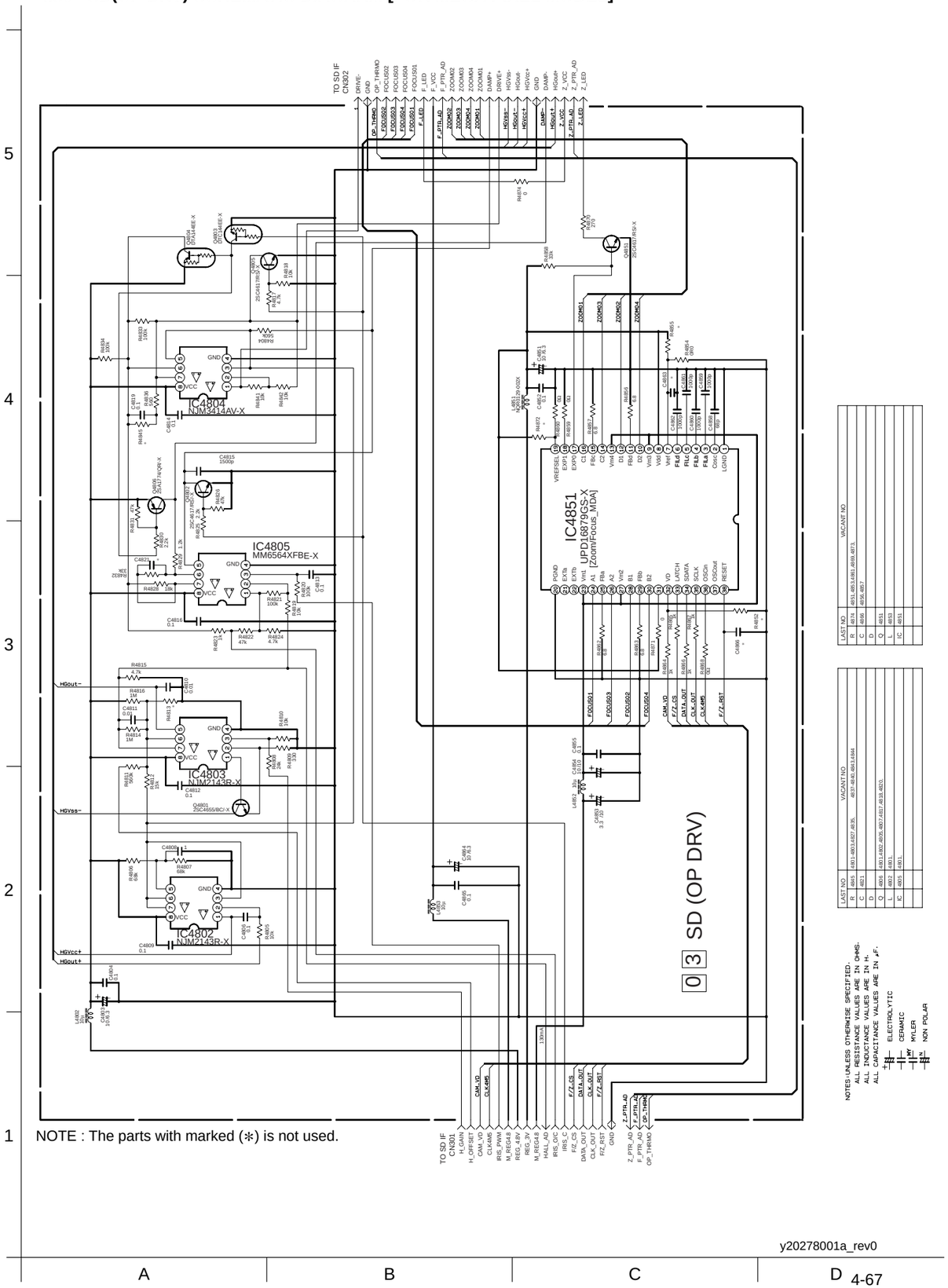
LAST NO	VACANT NO
R	8509
C	8503
D	8502
L	8501

EXCHANGE PARTS LIST

	R8501-R8506	R8507	R8508	R8509	C8501	C8502	C8503	L8501	D8501	D8502	CN305
M3D3-7 WITH DSC	10k	0Ω	0Ω	0Ω	10/6.3	0.01	OPEN	NQR0006-001X	UMZ6.8KW	EMZ6.8N-X	NNZ0267-001X
M3D3~4/D3~5 WITHOUT DSC	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN

y30242001a_rev0

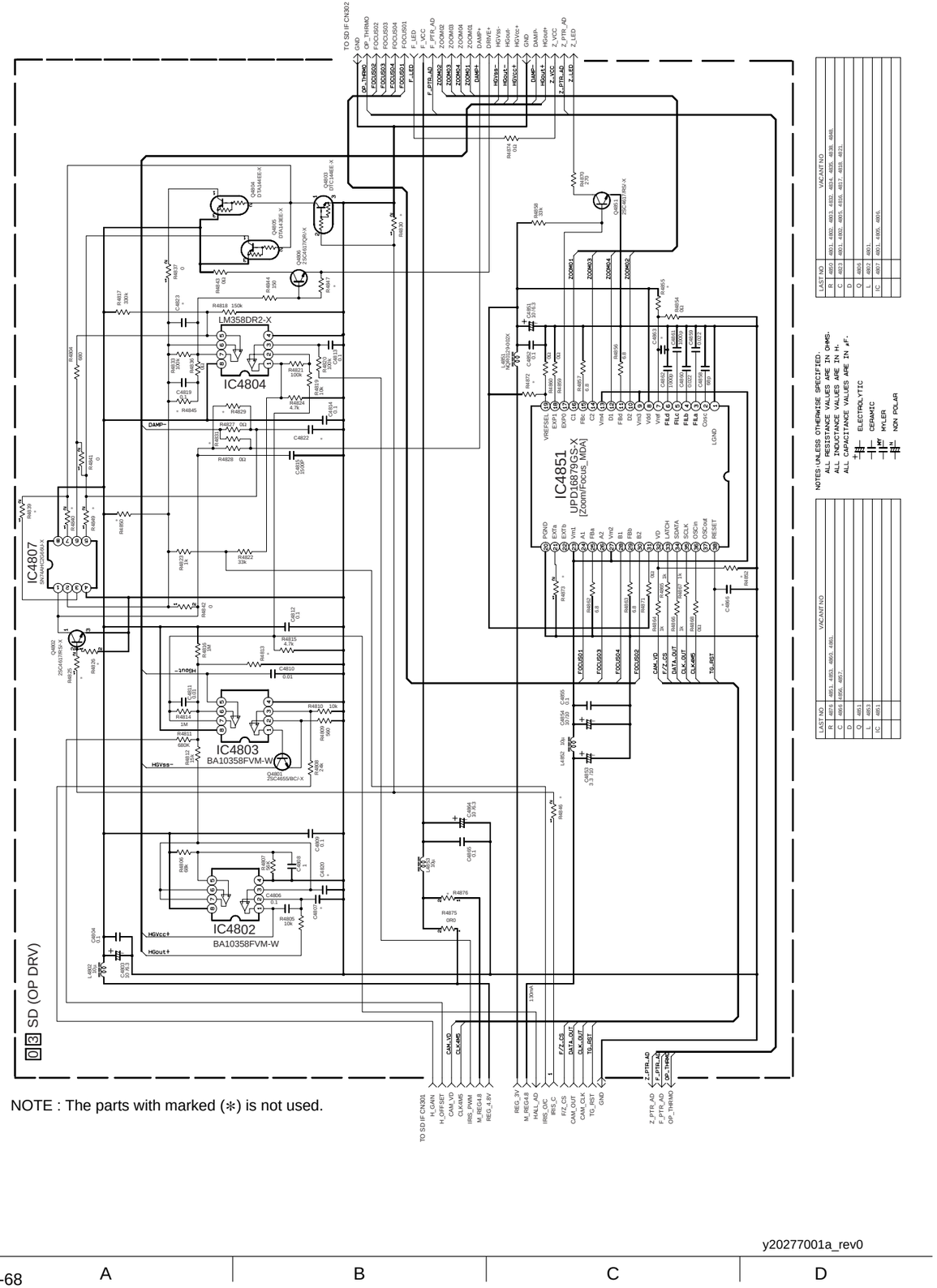
4.36 SD(OP DRV) SCHEMATIC DIAGRAM [FOR MEGA PIXEL MODEL]



NOTE : The parts with marked (*) is not used.

y20278001a_rev0

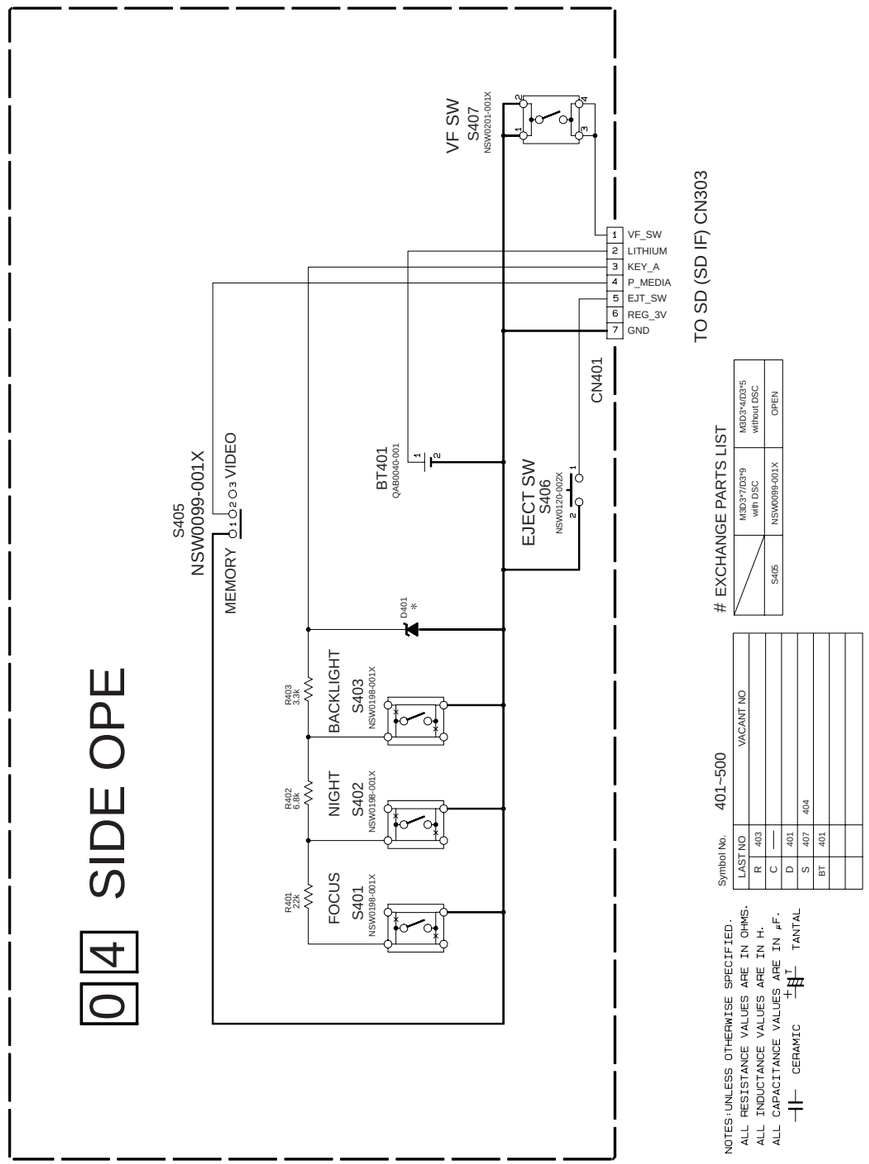
4.37 SD(OP DRV) SCHEMATIC DIAGRAM [FOR NON-MEGA PIXEL MODEL]



NOTE : The parts with marked (*) is not used.

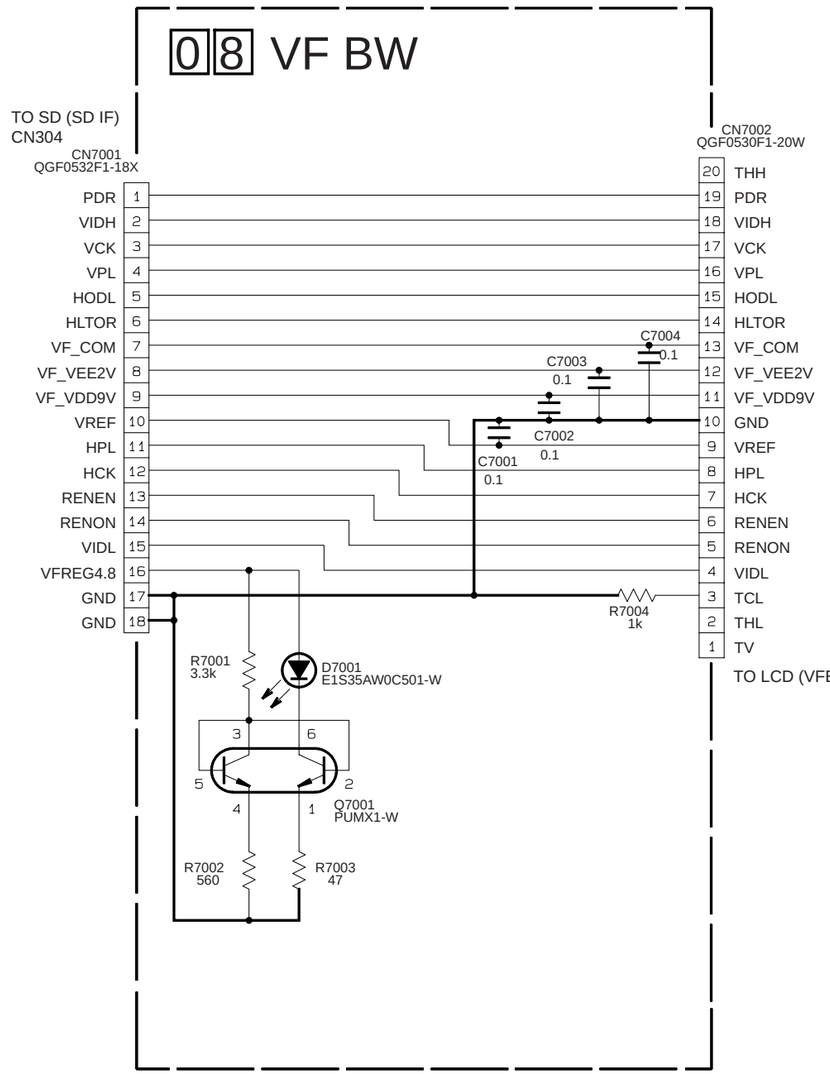
y20277001a_rev0

4.38 SIDE OPE SCHEMATIC DIAGRAM



NOTE : The parts with marked (*) is not used.

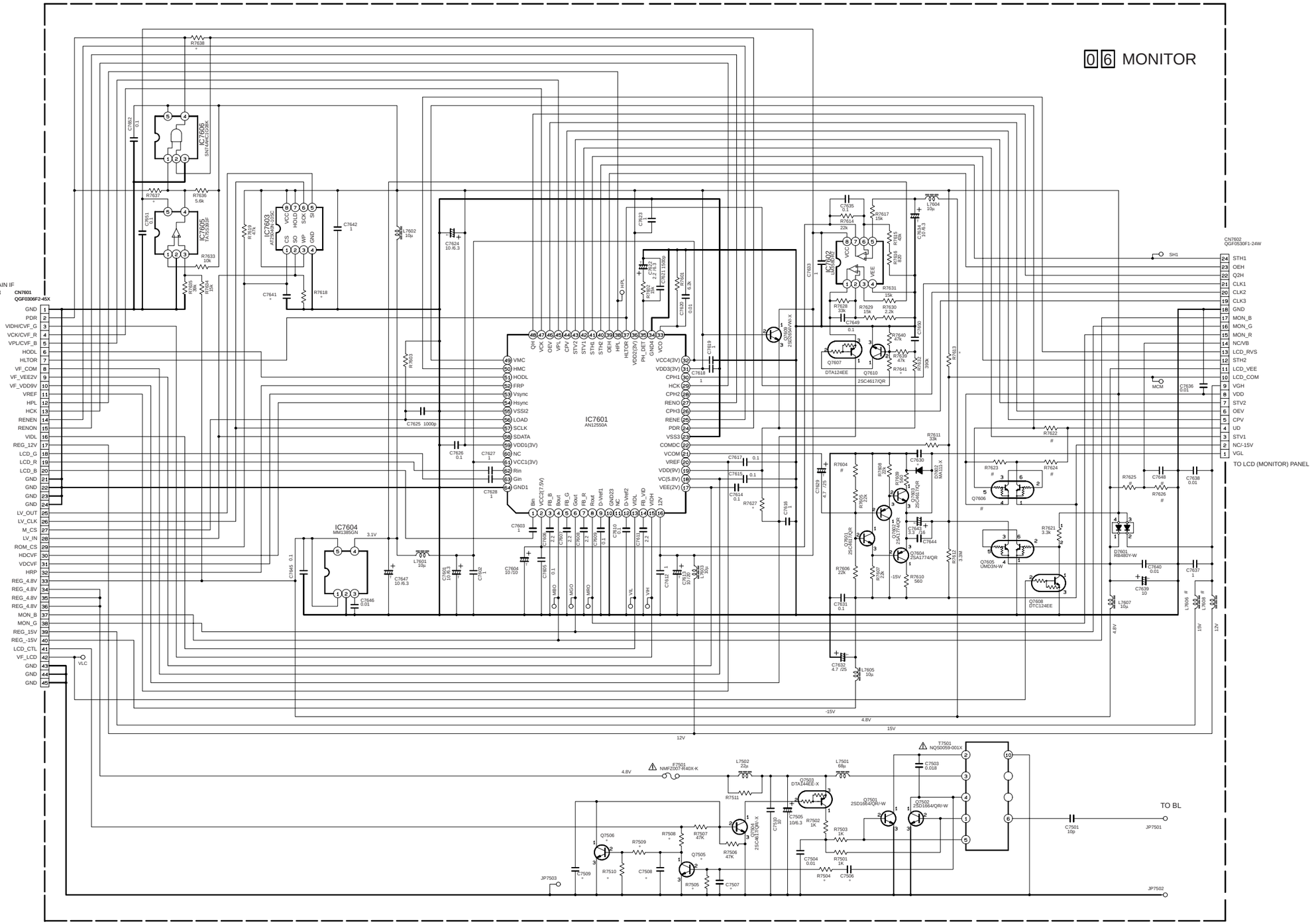
4.39 VF BW SCHEMATIC DIAGRAM



NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

CERAMIC

4.40 MONITOR SCHEMATIC DIAGRAM



NOTE : The parts with marked (∗) is not used.

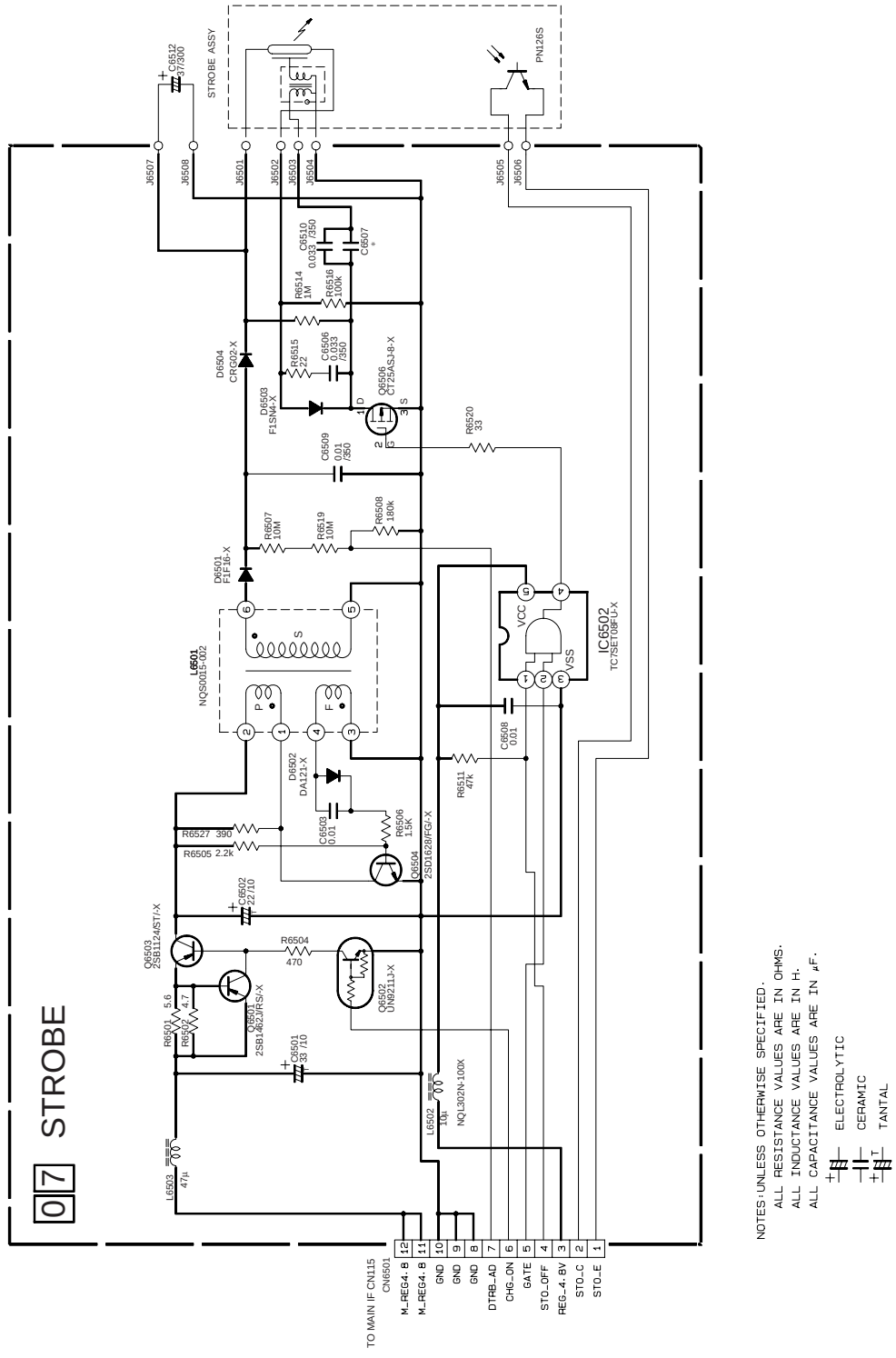
EXCHANGE PARTS LIST

LCD PANEL	Q7606	L7606	L7608	R7604	R7622	R7623	R7624	R7625	R7626	C7648
2.5"	OPEN	10u	OPEN	22k	0	OPEN	OPEN	OPEN	OPEN	OPEN
3.0"	UMD3N	OPEN	10u	6.8k	OPEN	22k	0	22k	22k	0.01

NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
TANTAL
CERAMIC

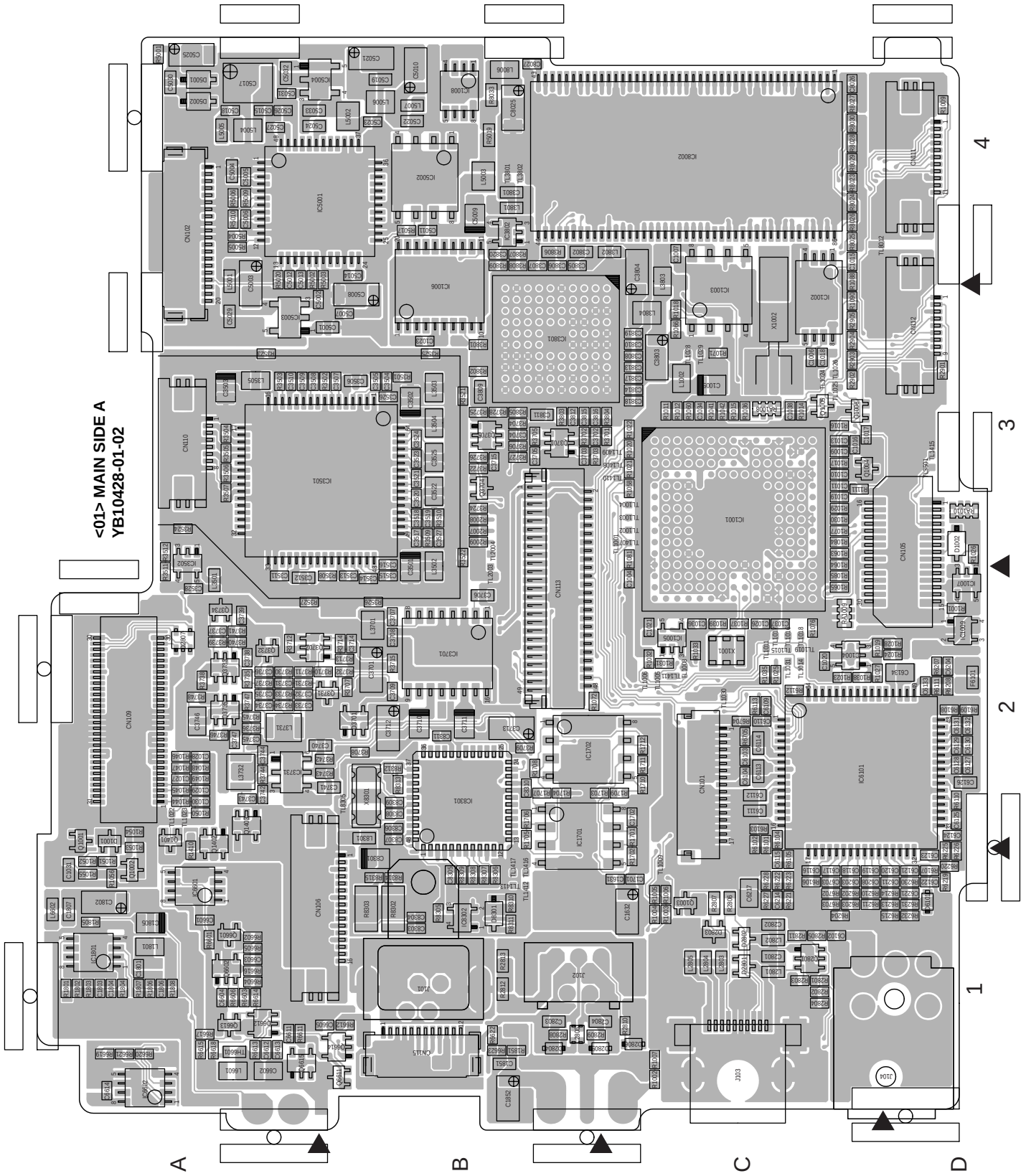
y10384001a_rev0

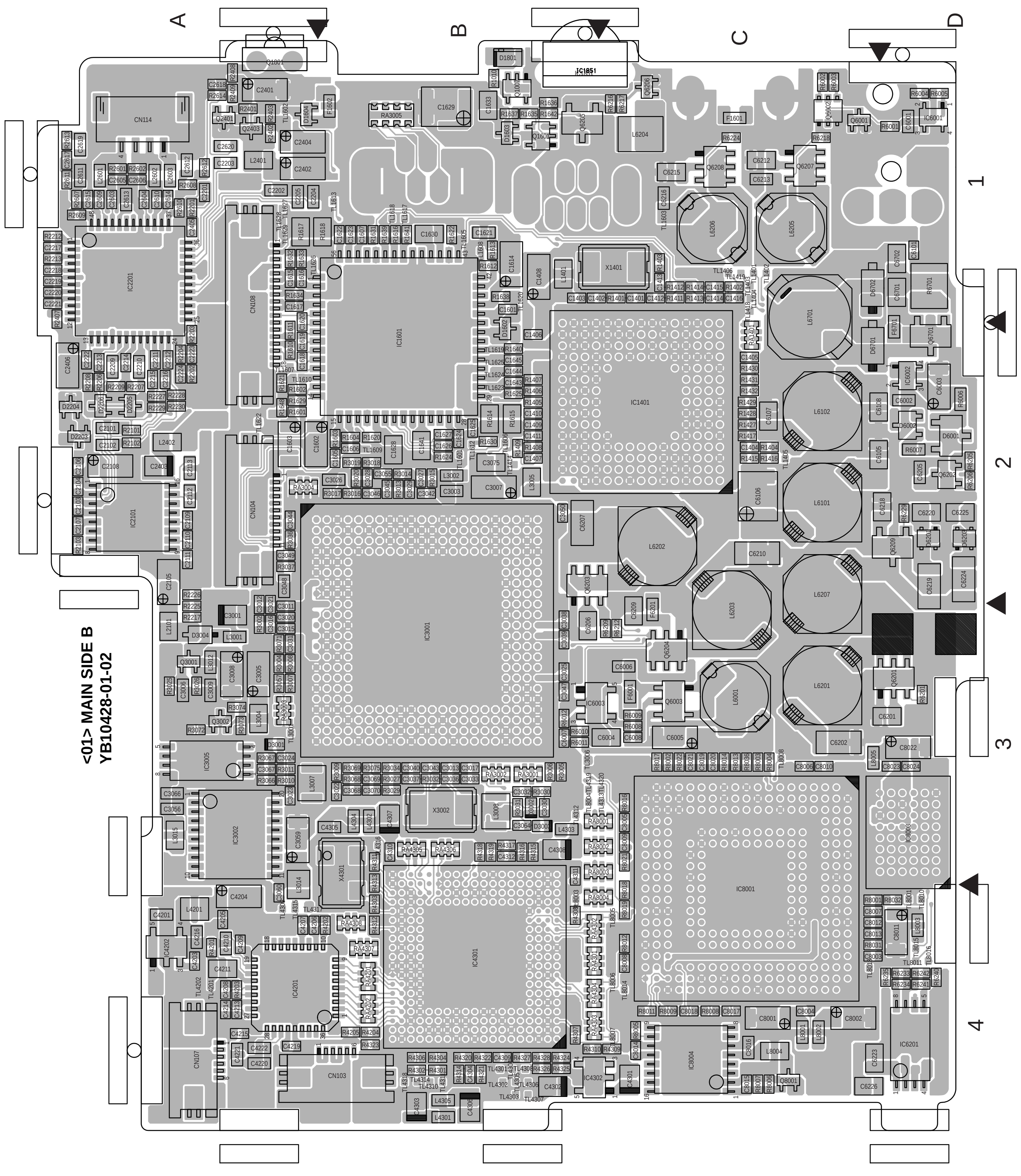
4.41 STROBE SCHEMATIC DIAGRAM [FOR STROBE MODEL]



NOTE : The parts with marked (∗) is not used.

4.42 MAIN CIRCUIT BOARD [FOR MEGA PIXEL with DSC MODEL]





COMPONENT PARTS LOCATION GUIDE <MAIN> YB10428-01-02

REF.NO.	LOCATION
CAPACITOR	
C1004	A C 2C
C1005	A C 3C
C1006	A C 3C
C1007	A C 4C
C1009	A C 3C
C1010	A C 3C
C1011	A C 3C
C1013	A C 3C
C1015	A C 4C
C1016	A C 3C
C1017	A C 3C
C1018	A C 3C
C1019	A C 3C
C1020	A C 2C
C1021	A C 2C
C1023	A C 3B
C1026	A C 2C
C1027	A C 2A
C1028	A C 2A
C1029	A C 2A
C1030	A C 2A
C1031	A C 1A
C1034	A C 3C
C1036	A C 2C
C1037	A C 2C
C1038	A C 3C
C1401	B C 1C
C1402	B C 1B
C1403	B C 1B
C1404	B C 2C
C1405	B C 2C
C1406	B C 2B
C1407	B C 2B
C1408	B C 1B
C1409	B C 2B
C1410	B C 2B
C1411	B C 2B
C1412	B C 1C
C1413	B C 1C
C1414	B C 1C
C1415	B C 1C
C1416	B C 1C
C1601	B C 1B
C1602	B C 2A
C1603	B C 2A
C1605	B C 2B
C1606	B C 2B
C1607	B C 1B
C1614	B C 1B
C1615	B C 1A
C1616	B C 1A
C1617	B C 1A
C1618	B C 2A
C1619	B C 2A
C1620	B C 2A
C1621	B C 1B
C1622	B C 1B
C1623	B C 1B
C1624	B C 2B
C1625	B C 2B
C1626	B C 2B
C1627	B C 2B
C1628	B C 2B
C1629	B C 1B
C1630	B C 1B
C1631	A C 1C
C1632	A C 1C
C1633	B C 1B
C1641	B C 2B
C1643	B C 2B
C1644	B C 2B
C1645	B C 2B
C1701	A C 1C
C1702	A C 2C
C1801	A C 1A
C1802	A C 1A
C1803	A C 1A
C1804	A C 1A
C1805	A C 1A
C1806	A C 1A
C1807	A C 1A
C1851	A C 1B
C1852	A C 1B
C2101	B C 2A
C2102	B C 2A
C2103	B C 2A
C2104	B C 2A
C2105	B C 2A
C2106	B C 2A
C2107	B C 2A
C2108	B C 2A
C2109	B C 2A
C2110	B C 2A
C2111	B C 2A
C2112	B C 2A
C2113	B C 2A
C2201	B C 1A
C2202	B C 1A
C2203	B C 1A
C2204	B C 1A
C2205	B C 1A
C2209	B C 2A
C2210	B C 2A
C2211	B C 2A
C2212	B C 2A
C2213	B C 2A
C2214	B C 2A
C2215	B C 2A
C2216	B C 2A
C2217	B C 1A
C2218	B C 1A
C2219	B C 1A
C2220	B C 1A
C2221	B C 1A
C2222	B C 2A
C2223	B C 2A
C2224	B C 2A
C2401	B C 1A
C2402	B C 1A

REF.NO.	LOCATION
C2403	B C 2A
C2404	B C 1A
C2405	B C 1A
C2406	B C 2A
C2603	B C 1A
C2604	B C 1A
C2605	B C 1A
C2606	B C 1A
C2609	B C 1A
C2610	B C 1A
C2611	B C 1A
C2612	B C 1A
C2613	B C 1A
C2614	B C 1A
C2615	B C 1A
C2617	B C 1A
C2618	B C 1A
C2619	B C 1A
C2620	B C 1A
C2801	A C 1C
C2802	A C 1C
C2803	A C 1B
C2804	A C 1B
C3001	B C 3A
C3003	B C 2B
C3005	B C 3A
C3006	B C 3A
C3007	B C 2B
C3008	B C 3A
C3009	B C 3A
C3011	B C 3A
C3012	B C 3A
C3013	B C 3B
C3015	B C 3A
C3016	B C 3A
C3017	B C 3B
C3020	B C 3A
C3021	B C 3A
C3022	B C 3B
C3023	B C 3A
C3024	B C 3A
C3025	B C 3B
C3026	B C 2B
C3027	B C 2B
C3028	B C 2B
C3029	B C 2B
C3030	B C 3B
C3031	B C 3A
C3032	B C 3B
C3033	B C 3B
C3036	B C 3B
C3037	B C 3B
C3038	B C 3B
C3039	B C 3B
C3040	B C 3B
C3042	B C 2B
C3043	B C 3B
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C3045	B C 2B
C3046	B C 2B
C3047	B C 3B
C3048	B C 2A
C3049	B C 2A
C3050	B C 2B
C3055	B C 2B
C3056	B C 3A
C3059	B C 3A
C3060	B C 4A
C3064	B C 3B
C3066	B C 3A
C3067	B C 3A
C3068	B C 3B
C3069	B C 3B
C3070	B C 3B
C3075	B C 2B
C3501	A C 2B
C3502	A C 3B
C3503	A C 3A
C3504	A C 3B
C3505	A C 3B
C3506	A C 3B
C3507	A C 3B
C3508	A C 3A
C3509	A C 3A
C3510	A C 3A
C3511	A C 2A
C3512	A C 2A
C3513	A C 2B
C3514	A C 2B
C3515	A C 2B
C3516	A C 3B
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C3518	A C 3B
C3519	A C 3B
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C3712	A C 2B
C3713	A C 2B
C3714	A C 2B
C3715	A C 3B
C3731	A C 2A
C3732	A C 2A

REF.NO.	LOCATION
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C3735	A C 2A
C3736	A C 2A
C3737	A C 2A
C3738	A C 2A
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C3742	A C 2A
C3743	A C 2A
C3744	A C 2A
C3745	A C 2A
C3746	A C 2A
C3747	A C 2A
C3801	A C 4B
C3802	A C 4B
C3803	A C 3C
C3804	A C 4C
C3805	A C 4B
C3806	A C 4B
C3807	A C 4B
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C3809	A C 3B
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C3812	A C 3B
C3813	A C 3C
C3814	A C 3C
C3815	A C 3B
C3816	A C 3B
C3817	A C 3C
C3818	A C 3C
C3819	A C 3C
C3820	A C 4B
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C4209	B C 4A
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C4213	B C 4A
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C4219	B C 4A
C4220	B C 4A
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C4309	B C 4B
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C6004	B C 3C
C6005	B C 3C
C6006	B C 3C
C6007	B C 3B
C6008	B C 3C
C6101	B C 1D
C6102	A C 1C
C6103	A C 2C
C6104	A C 2C
C6105	B C 2C
C6106	B C 2C
C6107	B C 2C
C6108	B C 2C
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C6112	A C 2C
C6113	A C 2C
C6114	A C 2C
C6115	A C 1C
C6116	A C 1C
C6117	A C 1C

REF.NO.	LOCATION
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C6119	A C 1C
C6120	A C 1D
C6121	A C 1D
C6122	A C 1D
C6123	A C 1D
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C6125	A C 2D
C6126	A C 2D
C6127	A C 2D
C6128	A C 2D
C6129	A C 2D
C6130	A C 2D
C6131	A C 2D
C6132	A C 2D
C6133	A C 2D
C6134	A C 2D
C6201	B C 3D
C6202	B C 3C
C6203	A C 1C
C6204	A C 2D
C6205	B C 2D
C6206	B C 3B
C6207	B C 2B
C6208	A C 1C
C6209	B C 3C
C6210	B C 2C
C6211	A C 1D
C6212	B C 1C
C6213	B C 1C
C6214	A C 1C
C6215	B C 1C
C6216	B C 1C
C6217	A C 1C
C6218	B C 2D
C6219	B C 2D
C6220	B C 2D
C6221	A C 1D
C6223	B C 4C
C6224	B C 2D
C6225	B C 2D
C6226	B C 4C
C6601	A C 1A
C6602	A C 1A
C6603	A C 1A
C6604	A C 1A
C6605	A C 1B
C6611	A C 1A
C6612	A C 1A
C6613	A C 1A
C6614	A C 1A
C6701	B C 1D
C6702	B C 1D
C6703	A C 1C
C8001	B C 4C
C8002	B C 4C
C8003	B C 4C
C8004	B C 4C
C8005	B C 3C
C8006	B C 3C
C8007	B C 4C
C8008	B C 4C
C8009	B C 3C
C8010	B C 3C
C8011	B C 4D
C8012	B C 4C
C8013	B C 4C
C8014	B C 4C
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C8017	B C 4C
C8018	B C 4C
C8019	B C 3C
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C8021	B C 3C
C8022	B C 3D
C8023	B C 3D
C8024	B C 3D
C8025	A C 4B
C8026	A C 4C
C8027	A C 4B
C8301	A C 1B
C8303	A C 1B
C8304	A C 1B
C8305	A C 1B
C8306	A C 2B
C8307	A C 2B
C8308	A C 2B
C8309	A C 2B
C8310	A C 2B
C8311	A C 2B
CONNECTOR	
CN101	A C 2C
CN102	A C 4A
CN103	B C 4B
CN104	B C 2A
CN105	A C 3D
CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
CN109	A C 2A
CN110	A C 3A
CN111	A C 4D
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
CN115	A C 1B
DIODE	
D1001	A C 2A
D1002	A C 3D
D1602	B C 2B
D1603	B C 1B
D1604	B C 1A
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
D2205	B C 2A
D2206	B C 2A

REF.NO.	LOCATION
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D2802	A C 1C
D2803	A C 1C
D2804	A C 1B
D2805	A C 1B
D2806	A C 1C
D2807	A C 2A
D3001	B C 3A
D3002	B C 3B
D3003	B C 3B
D3004	B C 3A
D3701	A C 2B
D5001	A C 4A
D5002	A C 4A
D6001	B C 2D
D6002	B C 2D
D6101	A C 1D
D6201	B C 2D
D6203	B C 2D
D6701	B C 2C
D6702	B C 1C
D8301	A C 1B
FUSE	
F1601	B C 1C
F1602	B C 1B
F6001	B C 3C
F6101	A C 2D
F6201	B C 3C
F6701	B C 2D
IC	
IC1001	A C 3C
IC1002	A C 3C
IC1003	A C 3C
IC1004	A C 2C
IC1005	A C 2C
IC1006	A C 3B
IC1007	A C 2D
IC1008	A C 4B
IC1009	A C 2D
IC1401	B C 2C
IC1601	B C 2B
IC1701	A C 2B
IC1702	A C 2B
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 3B
IC3002	B C 3A
IC3005	B C 3A
IC3501	A C 3B
IC3502	A C 3A
IC3701	A C 2B
IC3731	A C 2A
IC3801	A C 3B
IC3802	A C 4B
IC4201	B C 4A
IC4202	B C 4A
IC4301	B C 4B
IC4302	B C 4B
IC5001	A C 4B
IC5002	A C 4B
IC5003	A C 3A
IC5004	A C 4B
IC6001	B C 1D
IC6002	B C 2D
IC6003	B C 3B
IC6101	A C 2C
IC6201	B C 4D
IC6601	A C 1A
IC6602	A C 1A
IC8001	B C 4C
IC8002	A C 4C
IC8003	B C 3D
IC8004	B C 4C
IC8301	A C 2B
IC8302	A C 1B
COIL	
L1002	A C 3C
L1401	B C 1B
L1801	A C 1A
L2101	B C 3A
L2401	B C 1A
L2402	B C 2A
L2601	B C 1A
L2602	B C 1A
L2603	B C 1A
L2801	A C 1C
L2802	A C 1C
L2803	A C 1C
L2804	A C 1C
L2805	A C 1C
L2806	A C 1B
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L3002	B C 2B
L3004	B C 3A
L3005	B C 2B
L3007	B C 3A
L3008	B C 3B
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L3014	B C 4A
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L3503	A C 3B
L3504	A C 3B
L3505	A C 3A
L3701	A C 2B
L3731	A C 2A
L3732	A C 2A
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L3802	A C 4C
L3803	A C 4C
L3804	A C 3C
L4201	B C 4A
L4301	B C 4B
L4302	B C 3B

REF.NO.	LOCATION
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L4304	B C 3B
L4305	B C 4B
L5001	A C 4A
L5002	A C 4B
L5003	A C 4B
L5004	A C 4A
L5005	A C 4A
L5006	A C 4B
L5007	A C 4B
L6001	B C 3C
L6101	B C 2C
L6102	B C 2C
L6201	B C 3C
L6202	B C 2C
L6203	B C 3C
L6204	B C 1C
L6205	B C 1C
L6206	B C 1C
L6207	B C 2C
L6601	A C 1A
L6602	A C 1A
L6701	B C 1C
L8001	B C 4C
L8002	B C 4C
L8003	B C 4D
L8004	B C 4C
L8005	B C 3C
L8006	A C 4B
L8301	A C 2B
TRANSISTOR	
Q1001	A C 2A
Q1002	A C 1A
Q1003	A C 1C
Q1004	A C 3C
Q1005	A C 3C
Q1006	A C 3C
Q1007	B C 1B
Q1401	A C 2A
Q1402	A C 2A
Q1403	A C 2A
Q1601	B C 1B
Q1801	A D 1A
Q2401	B C 1A
Q2403	B C 1A
Q2801	A C 1C
Q3001	B C 3A
Q3002	B C 3A
Q3701	A C 3B
Q3702	A C 2A
Q3704	A C 3B
Q3705	A C 3B
Q3731	A C 2B
Q3732	A C 2A
Q3733	A C 2A
Q3734	A C 2A
Q3735	A C 2A
Q6001	B C 1C
Q6002	B C 1C
Q6003	B C 3C
Q6201	B C 3D
Q6202	B C 2D
Q6203	B C 2B
Q6204	B C 3C
Q6205	B C 1B
Q6206	B C 1C
Q6207	B C 1C
Q6208	B C 1C
Q6209	B C 2D
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Q6602	A C 1A
Q6611	A C 1B
Q6612	A C 1A
Q6613	A C 1A
Q6614	A C 1B
Q6615	A C 1A
Q6701	B C 2D
Q8001	B C 4C
RESISTOR	
R1001	A C 2D
R1002	A C 1C
R1003	A C 1C
R1004	A C 1C
R1005	A C 1C
R1006	A C 1C
R1007	A C 1C
R1009	A C 4D
R1010	B C 1B
R1011	A C 3C
R1012	A C 3C
R1014	A C 3C
R1015	A C 3C
R1016	A C 3C
R1017	A C 3C
R1018	A C 3C
R1019	A C 2C
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R1021	A C 3C
R1022	A C 3C
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R1024	A C 2D
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R1037	A C 2C
R1038	A C 2C
R1039	A C 2C
R1041	A C 3C
R1042	A C 3C
R1044	A C 2A

REF.NO.	LOCATION
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R1046	A C 2A
R1047	A C 2A
R1048	A C 2A
R1049	A C 2A
R1050	A C 2A
R1051	A C 1A
R1052	A C 1A
R1053	A C 2A
R1054	A C 2A
R1055	A C 1A
R1056	A C 1A
R1058	A C 3C
R1060	A C 3C
R1063	A C 3C
R1064	A C 3C
R1065	A C 2C
R1066	A C 3C
R1071	A C 3C
R1072	A C 2B
R1076	A C 2C
R1077	A C 3C
R1081	A C 3C
R1084	A C 3C
R1085	A C 2C
R1088	A C 4C
R1090	A C 3C
R1111	A C 3C
R1401	B C 1C
R1402	B C 1C
R1403	B C 1C
R1404	B C 2C
R1405	B C 2B
R1406	B C 2B
R1407	B C 2B
R1408	B C 2B
R1409	B C 2B
R1410	A C 1A
R1411	B C 1C
R1412	B C 1C
R1413	B C 1C
R1414	B C 1C
R1415	B C 2C
R1416	B C 2C
R1417	B C 2C
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R2204	B C 2A
R2206	B C 2A
R2207	B C 2A
R2208	B C 2A
R2209	B C 2A
R2212	B C 1A

REF.NO.	LOCATION
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R2225	B C 3A
R2226	B C 2A
R2227	B C 2A
R2228	B C 2A
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R2403	B C 1A
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R3725	A C 3B
R3726	A C 3B
R3727	A C 3B
R3728	A C 3B
R3730	A C 2A

REF.NO.	LOCATION
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R3733	A C 2A
R3734	A C 2A
R3735	A C 2A
R3736	A C 2A
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R3742	A C 2B
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R3744	A C 2A
R3745	A C 2A
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R3747	A C 2A
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R5003	A C 4B
R5004	A C 4A
R5005	A C 4A
R5006	A C 4A
R5009	A C 4A
R5010	A C 4A
R5017	A C 4B
R5019	A C 4B
R5020	A C 4A
R6001	B C 1D
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R6003	B C 1C
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TL1003	A C 3C
TL1004	A C 3C
TL1005	A C 2C
TL1006	A C 2C
TL1008	A C 2C
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TL1011	A C 2C
TL1014	A C 2C
TL1015	A C 2C
TL1016	A C 2C
TL1017	A C 2C
TL1018	A C 2C

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TL1028	A C 3C
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TL1627	B C 1A
TL1628	B C 1A
TL1629	B C 1A
TL2003	A C 2B
TL2004	A C 3B
TL3001	B C 3A
TL3006	B C 3B
TL3501	A C 3D
TL3801	A C 4B
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TL4201	B C 4A
TL4202	B C 4A
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TL8012	A C 4C
TL8013	B C 4C
TL8014	B C 4C
TL8015	B C 4D
TL8016	B C 4D
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
TH6601	A C 1A
X1001	A C 2C
X1002	A C 3C
X1401	B C 1C
X3002	B C 3B
X4301	B C 3B
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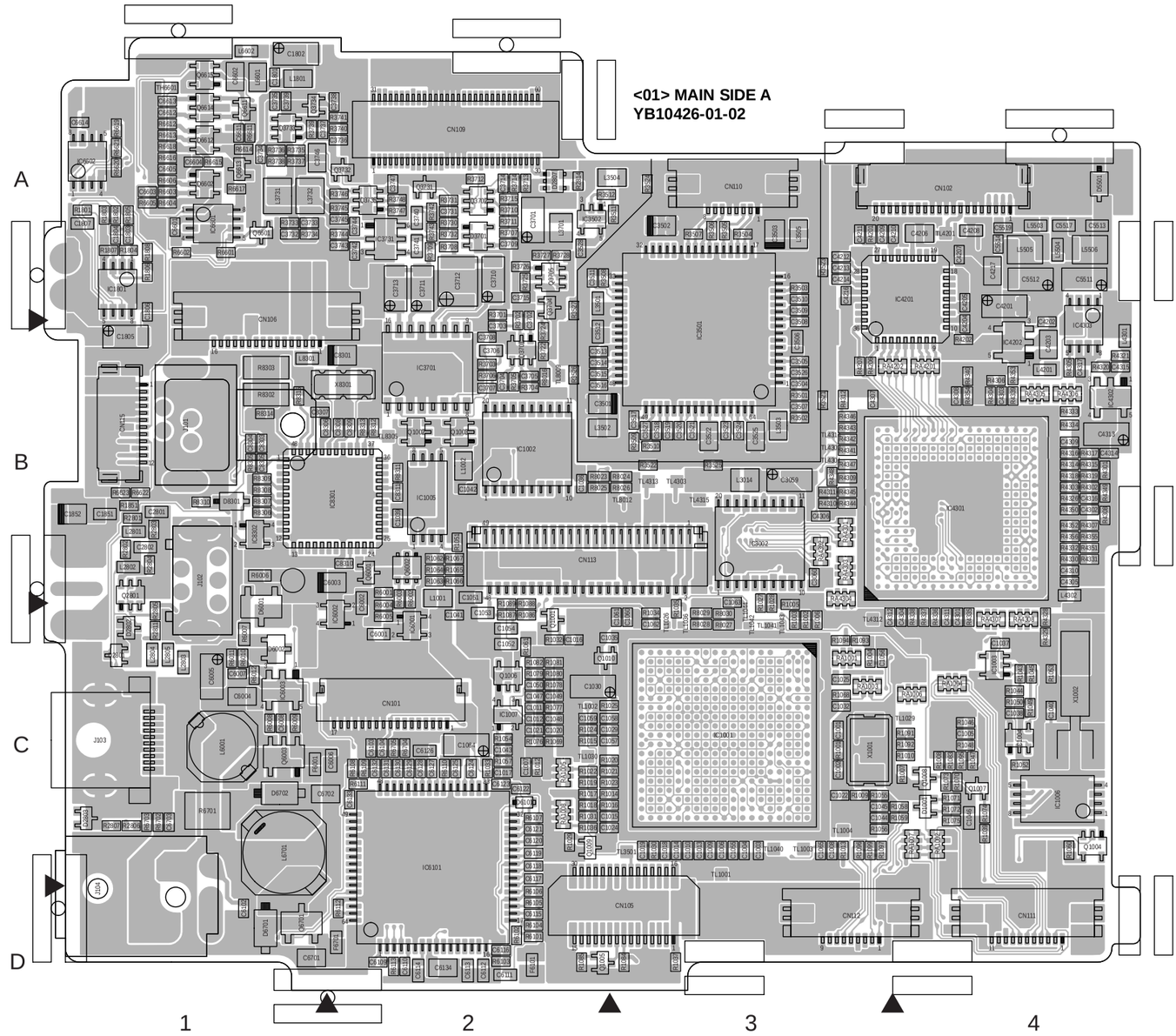

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YB10426-01-02

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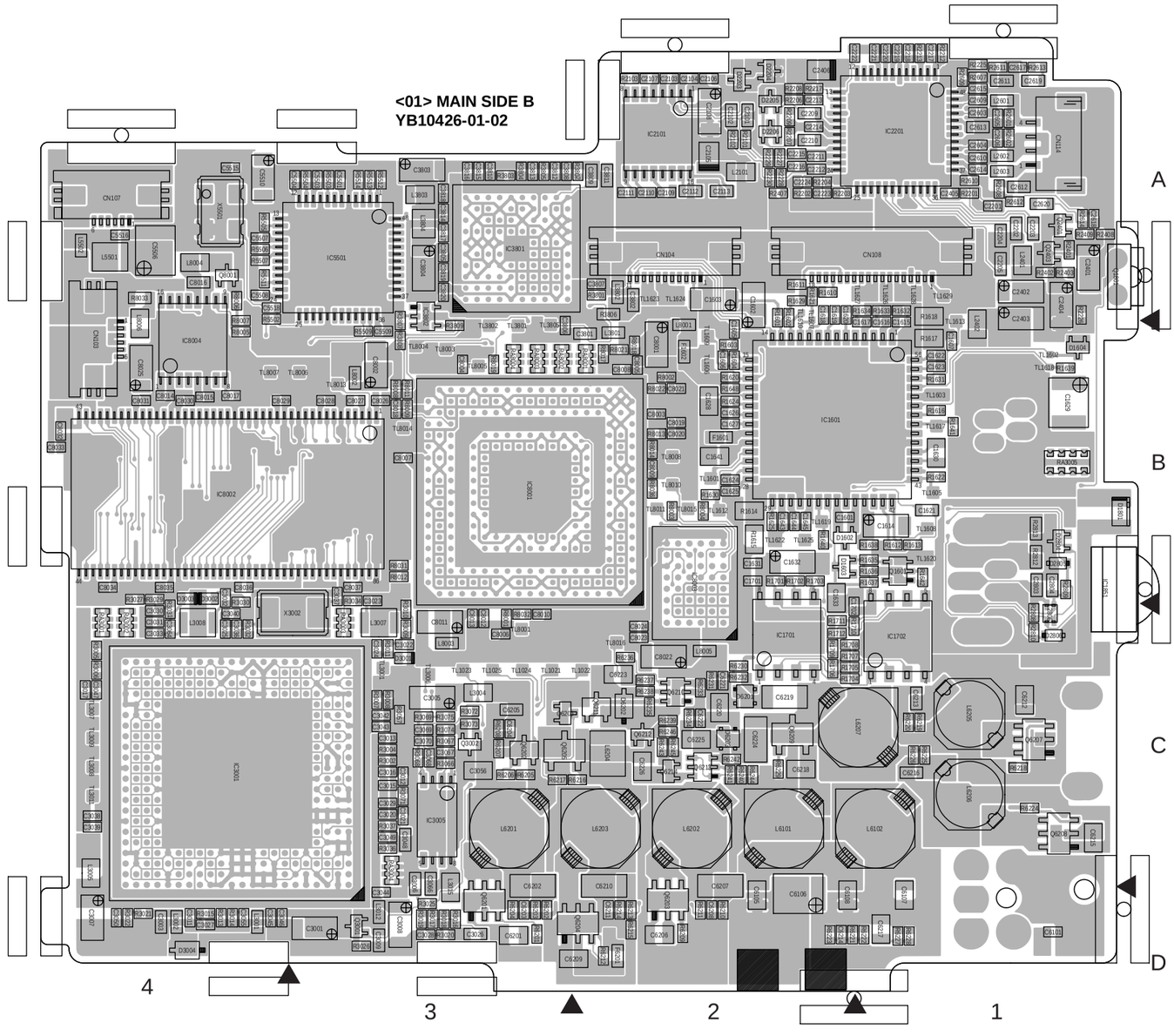

<01> MAIN SIDE B
YB10426-01-02

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COMPONENT PARTS LOCATION GUIDE <MAIN> YB10426-01-02

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C1004	A C 3C
C1005	A C 4C
C1006	A C 3C
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C1016	A C 2C
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CN103	B C 4B
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CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
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CN110	A C 3A
CN111	A C 4D
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
CN115	A C 1B
DIODE	
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D1603	B C 2B
D1604	B C 1B
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
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D6001	A C 1C
D6002	A C 1C
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D6201	B C 2C
D6202	B C 2C
D6203	B C 2C
D6701	A C 1D
D6702	A C 1C
D8301	A C 1B
FUSE	
F1601	B C 2B
F1602	B C 2B
F6001	A C 1C
F6101	A C 2D
F6201	B C 2D
F6701	A C 2D
IC	
IC1001	A C 3C
IC1002	A C 2B
IC1003	A C 4C
IC1004	A C 4C
IC1005	A C 2B
IC1006	A C 4C
IC1007	A C 2C
IC1601	B C 2B
IC1701	B C 2C
IC1702	B C 1C
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 4C
IC3002	A C 3B
IC3005	B C 3C
IC3501	A C 3B
IC3502	A C 2A
IC3701	A C 2B
IC3731	A C 2A
IC3801	B C 3A
IC3802	B C 3A
IC4201	A C 4A
IC4202	A C 4B
IC4301	A C 4B
IC4302	A C 4B
IC4303	A C 4B
IC5501	B C 3A
IC6001	A C 2C
IC6002	A C 2C
IC6003	A C 1C
IC6101	A C 2C
IC6601	A C 1A
IC6602	A C 1A
IC8001	B C 3B
IC8002	B C 4B
IC8003	B C 2B
IC8004	B C 4B
IC8301	A C 2B
IC8302	A C 1B
COIL	
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L1002	A C 2B
L1801	A C 1A
L2101	B C 2A
L2401	B C 1A
L2402	B C 1B
L2601	B C 1A
L2602	B C 1A
L2603	B C 1A
L2801	A C 1B
L2802	A C 1B
L2803	A C 1C
L2804	A C 1C
L2805	A C 1C
L2806	B C 1C
L3001	B C 4D
L3002	B C 4D
L3004	B C 3C
L3005	B C 4C
L3007	B C 3C
L3008	B C 4C
L3012	B C 3D
L3014	A C 3B
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L3501	A C 2A
L3502	A C 2B
L3503	A C 3B
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L3505	A C 3A
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L3732	A C 1A
L3801	B C 2B
L3802	B C 2A
L3803	B C 3A
L3804	B C 3A
L4201	A C 4B
L4301	A C 4B
L4302	A C 4B
L5501	B C 4A
L5502	B C 4A
L5503	A C 4A
L5504	A C 4A
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L6102	B C 1C
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L6203	B C 2C
L6204	B C 2C
L6205	B C 1C
L6206	B C 1C
L6207	B C 1C
L6601	A C 1A
L6602	A C 1A
L6701	A C 1C
L8001	B C 2B
L8002	B C 3B
L8003	B C 3C
L8004	B C 4A
L8005	B C 2C
L8006	B C 4B
L8301	A C 1B
TRANSISTOR	
Q1001	A C 2C
Q1002	A C 2B
Q1003	A C 2B
Q1004	A C 4C
Q1005	A C 2D
Q1006	A C 2C
Q1007	A C 4C
Q1008	A C 4C
Q1009	A C 2C
Q1010	A C 2C
Q1601	B C 1B
Q1801	A D 1A
Q2401	B C 1A
Q2403	B C 1A
Q2801	A C 1B
Q3001	B C 3D
Q3002	B C 3C
Q3701	A C 2B
Q3702	A C 2A
Q3704	A C 2A
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Q6003	A C 1C
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Q6203	B C 2D
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Q6613	A C 1A
Q6614	A C 1A
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R1805	A C 1A
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RA1002	A C 4C
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RA4308	A C 4C
RA8001	B C 2B
RA8002	B C 3B
RA8003	B C 3B
RA8004	B C 3B
TEST POINT	
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TL1002	A C 2C
TL1003	A C 3C
TL1004	A C 3C
TL1021	B C 3C
TL1022	B C 2C
TL1023	B C 3C
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TL1629	B C 1A
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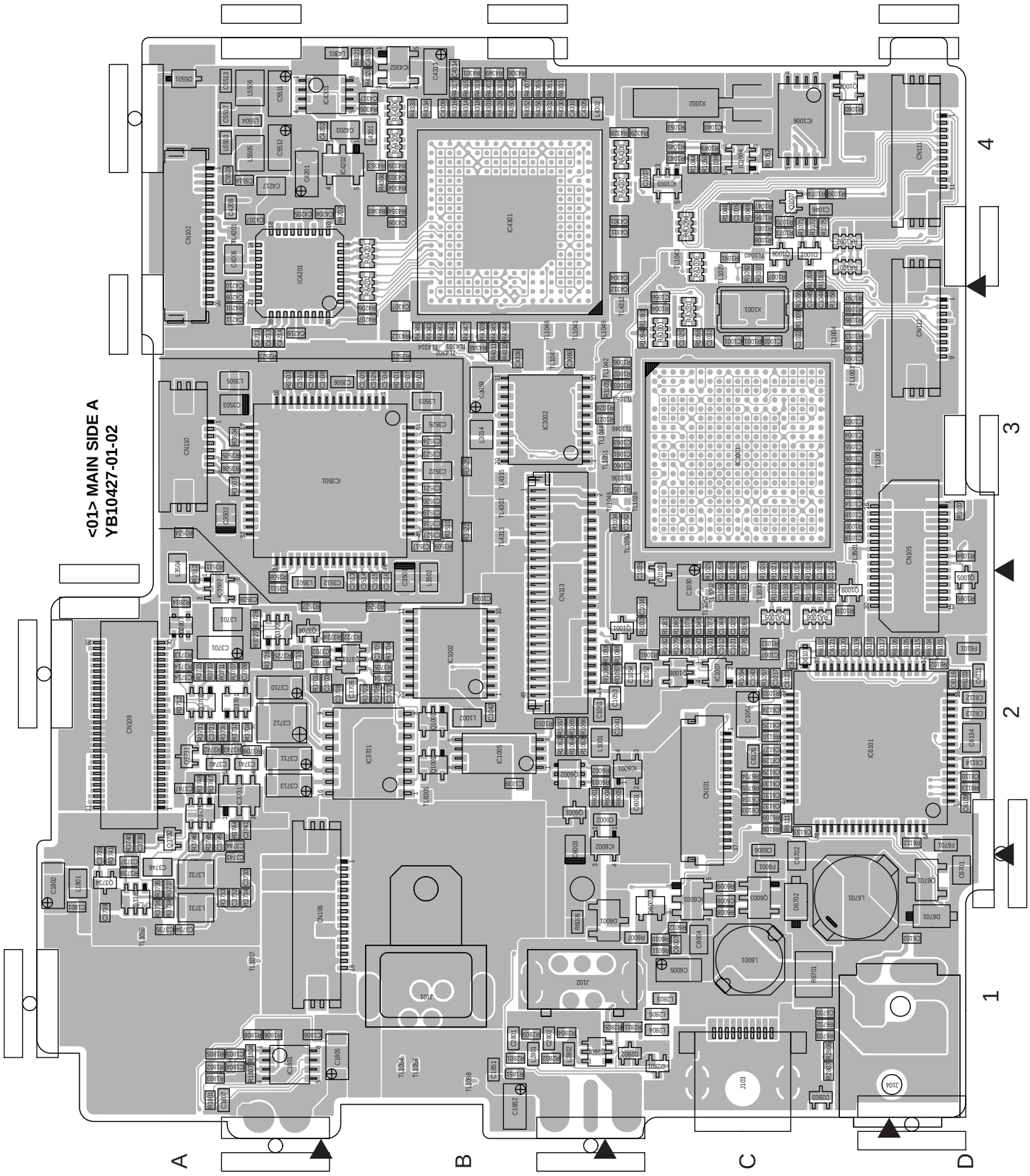
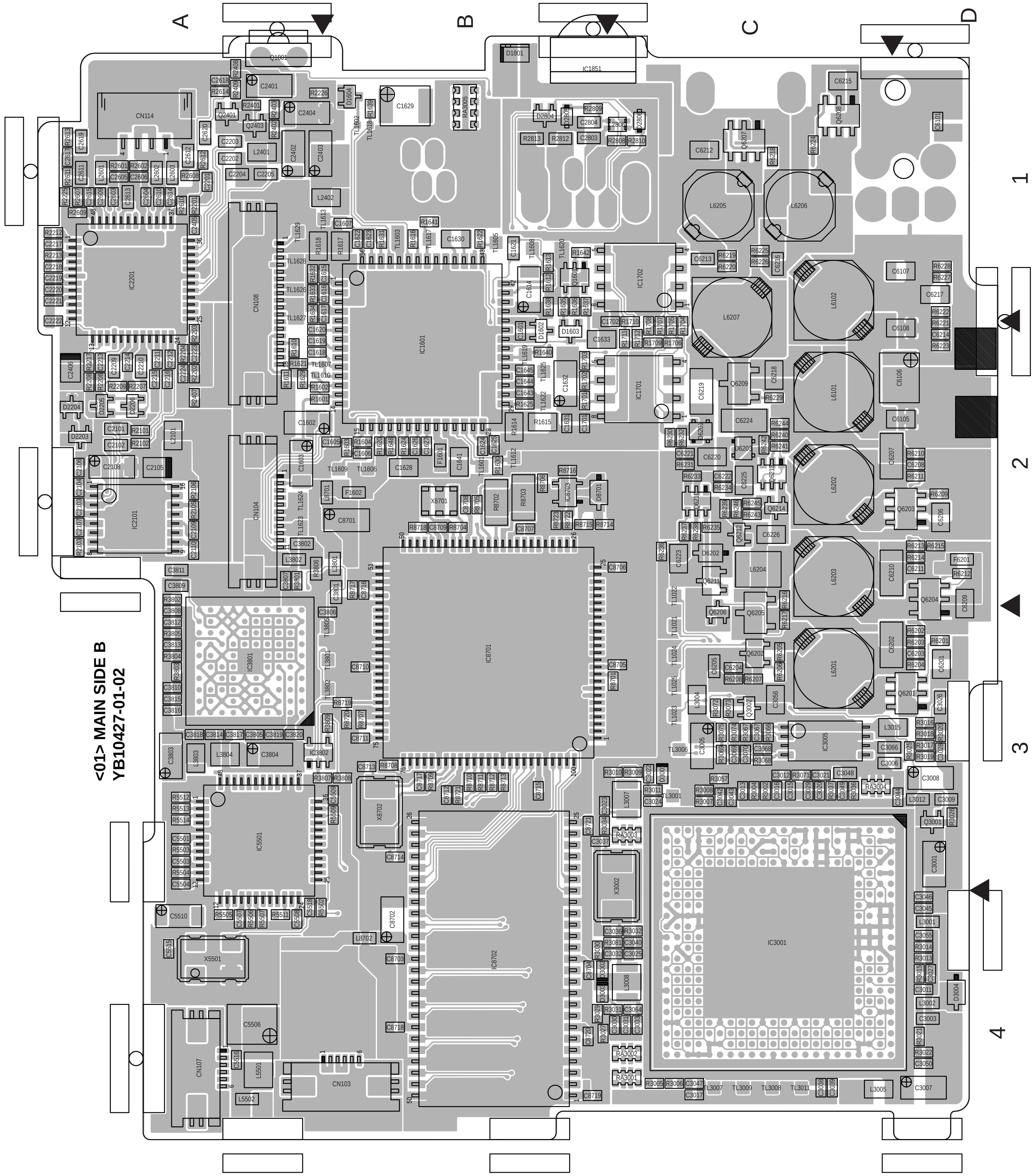
TL8012	A C 3B
TL8013	B C 3B
TL8014	B C 3B
TL8015	B C 2B
TL8016	B C 2C
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
TH6601	A C 1A
X1001	A C 3C
X1002	A C 4C
X3002	B C 3C
X5501	B C 4A
X8301	A C 2B

4.44 MAIN CIRCUIT BOARD [FOR NON-MEGA PIXEL without DSC MODEL]





<01> MAIN SIDE B
YB10427-01-02

COMPONENT PARTS LOCATION GUIDE <MAIN> YB10427-01-02

REF.NO.	LOCATION
CAPACITOR	
C1001	A C 3C
C1002	A C 3C
C1003	A C 3C
C1004	A C 3C
C1005	A C 4C
C1006	A C 3C
C1007	A C 2C
C1008	A C 3C
C1009	A C 3C
C1010	A C 3C
C1011	A C 2C
C1012	A C 2C
C1013	A C 3C
C1014	A C 3C
C1015	A C 2C
C1016	A C 2C
C1017	A C 2C
C1018	A C 3C
C1019	A C 3C
C1020	A C 2C
C1021	A C 2C
C1022	A C 3C
C1024	A C 2C
C1025	A C 3C
C1029	A C 2C
C1030	A C 2C
C1032	A C 3C
C1035	A C 2C
C1036	A C 2B
C1037	A C 4C
C1038	A C 4C
C1039	A C 2B
C1040	A C 4C
C1041	A C 2C
C1042	A C 2B
C1043	A C 2C
C1044	A C 3C
C1045	A C 3C
C1046	A C 4C
C1047	A C 2C
C1048	A C 2C
C1049	A C 2C
C1050	A C 2C
C1051	A C 2B
C1052	A C 2C
C1053	A C 2C
C1054	A C 2C
C1055	A C 3C
C1056	A C 3C
C1057	A C 2C
C1058	A C 2C
C1059	A C 2C
C1060	A C 3C
C1061	A C 3C
C1062	A C 3C
C1063	A C 3C
C1064	A C 2C
C1065	A C 3C
C1601	B C 2B
C1602	B C 2A
C1603	B C 2A
C1605	B C 2B
C1606	B C 2B
C1607	B C 1B
C1614	B C 1B
C1615	B C 1B
C1616	B C 1B
C1617	B C 1B
C1618	B C 2A
C1619	B C 2A
C1620	B C 2A
C1621	B C 1B
C1622	B C 1B
C1623	B C 1B
C1624	B C 2B
C1625	B C 2B
C1626	B C 2B
C1627	B C 2B
C1628	B C 2B
C1629	B C 1B
C1630	B C 1B
C1631	B C 2B
C1632	B C 2B
C1633	B C 2B
C1641	B C 2B
C1643	B C 2B
C1644	B C 2B
C1645	B C 2B
C1701	B C 2B
C1702	B C 2C
C1801	A C 1A
C1802	A C 1A
C1803	A C 1A
C1804	A C 1A
C1805	A C 1B
C1806	A C 1A
C1807	A C 1A
C1851	A C 1B
C1852	A C 1B
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C2104	B C 2A
C2105	B C 2A
C2106	B C 2A
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C2203	B C 1A
C2204	B C 1A
C2205	B C 1A
C2209	B C 2A
C2210	B C 2A
C2211	B C 2A

REF.NO.	LOCATION
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C2214	B C 2A
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C2216	B C 2A
C2217	B C 1A
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C2221	B C 1A
C2222	B C 2A
C2223	B C 2A
C2224	B C 2A
C2401	B C 1A
C2402	B C 1A
C2403	B C 1A
C2404	B C 1A
C2405	B C 1A
C2406	B C 2A
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C2605	B C 1A
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C2620	B C 1A
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C2803	B C 1B
C2804	B C 1B
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C3003	B C 4D
C3005	B C 3C
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C3048	B C 3C
C3049	B C 3C
C3050	B C 4D
C3055	B C 4D
C3056	B C 3C
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C3060	A C 3B
C3064	B C 4C
C3066	B C 3C
C3067	B C 3C
C3068	B C 3C
C3069	B C 3C
C3070	B C 3C
C3501	A C 2B
C3502	A C 3A
C3503	A C 3A
C3504	A C 3B
C3505	A C 3B
C3506	A C 3B
C3507	A C 3B
C3508	A C 3B
C3509	A C 3A
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C3518	A C 3B
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C3524	A C 3B
C3525	A C 3B
C3526	A C 3B
C3527	A C 3B
C3528	A C 2A
C3701	A C 2A

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C3703	A C 2B
C3704	A C 2B
C3705	A C 2B
C3706	A C 2B
C3707	A C 2B
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C3712	A C 2A
C3713	A C 2A
C3714	A C 2A
C3715	A C 2A
C3731	A C 2A
C3732	A C 1A
C3733	A C 1A
C3734	A C 1A
C3735	A C 1A
C3736	A C 2A
C3737	A C 1A
C3738	A C 1A
C3739	A C 1A
C3740	A C 2A
C3741	A C 2A
C3742	A C 2A
C3743	A C 1A
C3744	A C 2A
C3745	A C 2A
C3746	A C 1A
C3747	A C 2A
C3801	B C 2B
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C3803	B C 3A
C3804	B C 3A
C3805	B C 3A
C3806	B C 3B
C3807	B C 2A
C3808	B C 3A
C3809	B C 2A
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C3814	B C 3A
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C3819	B C 3A
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C4208	A C 4A
C4209	A C 3A
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C4216	A C 3A
C4217	A C 4A
C4301	A C 4C
C4302	A C 4B
C4303	A C 4B
C4304	A C 4C
C4305	A C 4B
C4306	A C 3B
C4307	A C 3B
C4308	A C 4B
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C4311	A C 4C
C4312	A C 3C
C4313	A C 4B
C4314	A C 4B
C4315	A C 4B
C4316	A C 4B
C4317	A C 4B
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C5503	B C 3A
C5504	B C 3A
C5506	B C 4A
C5507	B C 4A
C5508	B C 4A
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C5512	A C 4A
C5513	A C 4A
C5514	A C 4A
C5515	B C 4A
C5516	B C 4A
C5517	A C 4A
C5518	B C 4A
C5519	A C 4A
C6001	A C 2C
C6002	A C 2C
C6003	A C 2B
C6004	A C 1C
C6005	A C 1C
C6006	A C 2C
C6007	A C 1C
C6008	A C 1C
C6101	B C 1D
C6102	A C 1D
C6103	A C 2C
C6104	A C 2C
C6105	B C 2D
C6106	B C 2D
C6107	B C 1D
C6108	B C 2D
C6109	A C 2D

REF.NO.	LOCATION
C6110	A C 2D
C6111	A C 2D
C6112	A C 2D
C6113	A C 2D
C6114	A C 2D
C6115	A C 2D
C6116	A C 2D
C6117	A C 2C
C6118	A C 2C
C6119	A C 2C
C6120	A C 2C
C6121	A C 2C
C6122	A C 2C
C6123	A C 2C
C6124	A C 2C
C6125	A C 2C
C6126	A C 2C
C6127	A C 2C
C6128	A C 2C
C6129	A C 2C
C6130	A C 2C
C6131	A C 2C
C6132	A C 2C
C6133	A C 2C
C6134	A C 2D
C6201	B C 3D
C6202	B C 3C
C6203	B C 3D
C6204	B C 3C
C6205	B C 3C
C6206	B C 2D
C6207	B C 2C
C6208	B C 2D
C6209	B C 2D
C6210	B C 2C
C6211	B C 2D
C6212	B C 1C
C6213	B C 1C
C6214	B C 2D
C6215	B C 1C
C6216	B C 1C
C6217	B C 1D
C6218	B C 2C
C6219	B C 2C
C6220	B C 2C
C6221	B C 2C
C6222	B C 2C
C6223	B C 2C
C6224	B C 2C
C6225	B C 2C
C6226	B C 2C
C6701	A C 1D
C6702	A C 1C
C6703	A C 1C
C8701	B C 2B
C8702	B C 4B
C8703	B C 4B
C8704	B C 4B
C8705	B C 3C
C8706	B C 2C
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C8708	B C 2B
C8709	B C 2B
C8710	B C 3B
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C8712	B C 3B
C8713	B C 3B
C8714	B C 3B
C8715	B C 3B
C8716	B C 2B
C8717	B C 3B
C8718	B C 4B
C8719	B C 4B
C8720	B C 4B
C8721	B C 3B
CONNECTOR	
CN101	A C 2C
CN102	A C 4A
CN103	B C 4B
CN104	B C 2A
CN105	A C 3D
CN106	A C 1A
CN107	B C 4A
CN108	B C 1A
CN109	A C 2A
CN110	A C 3A
CN111	A C 4D
CN112	A C 3D
CN113	A C 2B
CN114	B C 1A
DIODE	
D1001	A C 4C
D1602	B C 2B
D1603	B C 2B
D1604	B C 1B
D1801	B C 1B
D2203	B C 2A
D2204	B C 2A
D2205	B C 2A
D2206	B C 2A
D2801	A C 1C
D2802	A C 1C
D2803	A C 1C
D2804	B C 1B
D2805	B C 1B
D2806	B C 1C
D2807	A C 2A
D3001	B C 3C
D3002	B C 4B
D3003	B C 4B
D3004	B C 4D
D3701	A C 2A
D5501	A C 4A
D6001	A C 1C
D6002	A C 1C
D6101	A C 2C

REF.NO.	LOCATION
D6201	B C 2C
D6202	B C 2C
D6203	B C 2C
D6701	A C 1D
D6702	A C 1C
D8701	B C 2B
FUSE	
F1601	B C 2B
F1602	B C 2B
F6001	A C 1C
F6101	A C 2D
F6201	B C 2D
F6701	A C 2D
IC	
IC1001	A C 3C
IC1002	A C 2B
IC1003	A C 4C
IC1004	A C 4C
IC1005	A C 2B
IC1006	A C 4C
IC1007	A C 2C
IC1601	B C 2B
IC1701	B C 2C
IC1702	B C 1C
IC1801	A C 1A
IC1851	A D 1B
IC2101	B C 2A
IC2201	B C 1A
IC3001	B C 4C
IC3002	A C 3B
IC3005	B C 3C
IC3501	A C 3B
IC3502	A C 2A
IC3701	A C 2B
IC3731	A C 2A
IC3801	B C 3A
IC3802	B C 3A
IC4201	A C 4A
IC4202	A C 4B
IC4301	A C 4B
IC4302	A C 4B
IC4303	A C 4B
IC5501	B C 3A
IC6001	A C 2C
IC6002	A C 2C
IC6003	A C 1C
IC6101	A C 2C
IC8701	B C 3B
IC8702	B C 4B
IC8703	B C 2B
COIL	
L1001	A C 2B
L1002	A C 2B
L1801	A C 1A
L2101	B C 2A
L2401	B C 1A
L2402	B C 1B
L2601	B C 1A
L2602	B C 1A
L2603	B C 1A
L2801	A C 1B
L2802	A C 1B
L2803	A C 1C
L2804	A C 1C
L2805	A C 1C
L2806	B C 1C
L3001	B C 4D
L3002	B C 4D
L3004	B C 3C
L3005	B C 4C
L3007	B C 3C
L3008	B C 4C
L3012	B C 3D
L3014	A C 3B
L3015	B C 3D
L3501	A C 2A
L3502	A C 2B
L3503	A C 3B
L3504	A C 3A
L3505	A C 3A
L3701	A C 2A
L3731	A C 1A
L3732	A C 1A
L3801	B C 2B
L3802	B C 2A
L3803	B C 3A
L3804	B C 3A
L4201	A C 4B
L4301	A C 4B
L4302	A C 4B
L5501	B C 4A
L5502	B C 4A
L5503	A C 4A
L5504	A C 4A
L5505	A C 4A
L5506	A C 4A
L6001	A C 1C
L6101	B C 2C
L6102	B C 1C
L6201	B C 3C
L6202	B C 2C
L6203	B C 2C
L6204	B C 2C
L6205	B C 1C
L6206	B C 1C
L6207	B C 1C
L6701	A C 1C
L8701	B C 2B
L8702	B C 4B
TRANSISTOR	
Q1001	A C 2C
Q1002	A C 2B
Q1003	A C 2B
Q1004	A C 4C

REF.NO.	LOCATION
Q1005	A C 2D
Q1006	A C 2C
Q1007	A C 4C
Q1008	A C 4C
Q1009	A C 2C
Q1010	A C 2C
Q1601	B C 1B
Q1801	A D 1A
Q2401	B C 1A
Q2403	B C 1A
Q2801	A C 1B
Q3001	B C 3D
Q3002	B C 3C
Q3701	A C 2B
Q3702	A C 2A
Q3704	A C 2A
Q3705	A C 2A
Q3731	A C 2A
Q3732	A C 2A
Q3733	A C 1A
Q3734	A C 1A
Q3735	A C 2A
Q6001	A C 2B
Q6002	A C 2B
Q6003	A C 1C
Q6201	B C 3D
Q6202	B C 3C
Q6203	B C 2D
Q6204	B C 2D
Q6205	B C 3C
Q6206	B C 3C
Q6207	B C 1C
Q6208	B C 1C
Q6209	B C 2C
Q6210	B C 2C
Q6211	B C 2C
Q6212	B C 2C
Q6213	B C 2C
Q6214	B C 2C
Q6701	A C 1D
RESISTOR	
R1001	A C 3C
R1002	A C 3C
R1003	A C 3C
R1004	A C 3C
R1005	A C 3C
R1006	A C 3C
R1007	A C 4C
R1008	A C 4C
R1009	A C 3C
R1010	A C 4C
R1012	A C 2C
R1013	A C 3C
R1014	A C 2C
R1015	A C 2C
R1016	A C 2C
R1017	A C 2C
R1018	A C 2C
R1019	A C 2C
R1020	A C 2C
R1021	A C 2C
R1022	A C 2C
R1023	A C 2C
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R1032	A C 2C
R1033	A C 2C
R1034	A C 3C
R1035	A C 3C
R1036	A C 2C
R1037	A C 3D
R1039	A C 4C
R1043	A C 4C
R1044	A C 4C
R1045	A C 4C
R1046	A C 4C
R1047	A C 4C
R1048	A C 4C
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R1077	A C 2C
R1078	A C 2C
R1079	A C 2C
R1080	A C 2C
R1081	A C 2C
R1082	A C 2C

REF.NO.	LOCATION
R1083	A C 4C
R1084	A C 3D
R1085	A C 2D
R1086	A C 2C
R1087	A C 2C
R1088	A C 2C
R1089	A C 2C
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R1093	A C 3C
R1094	A C 3C
R1095	A C 4C
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R1099	A C 3C
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R1640	B C 2B
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R1642	B C 1B
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R1851	A C 1B
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R2103	B C 2A
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R2106	B C 2A
R2201	B C 1A
R2202	B C 2A
R2203	B C 2A
R2204	B C 2A
R2206	B C 2A
R2207	B C 2A
R2208	B C 2A
R2209	B C 2A
R2212	B C 1A
R2213	B C 1A
R2217	B C 2A
R2225	B C 1A
R2226	B C 1A
R2401	B C 1A
R2402	B C 1A
R2403	B C 1A
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R2614	B C 1A
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R2804	A C 1B
R2805	A C 1C
R2806	A C 1C
R2807	A C 1C
R2808	B C 1C
R2809	B C 1B
R2810	B C 1C
R2811	A C 1C
R2812	B C 1B
R2813	B C 1B
R2814	A C 2A
R3002	B C 3C

REF.NO.	LOCATION
R3004	B C 3C
R3005	B C 4C
R3006	B C 4C
R3007	B C 3C
R3008	B C 3C
R3009	B C 3C
R3010	B C 3C
R3011	B C 3C
R3013	B C 4D
R3014	B C 4D
R3015	B C 4D
R3016	B C 3D
R3017	B C 3D
R3018	B C 3D
R3019	B C 3D
R3020	B C 3D
R3021	B C 4D
R3022	B C 4D
R3025	B C 3D
R3026	B C 3D
R3027	B C 4B
R3029	B C 4B
R3030	B C 4B
R3031	B C 4C
R3032	B C 4C
R3034	B C 3B
R3036	B C 3C
R3037	B C 3C
R3057	B C 3C
R3066	B C 3C
R3067	B C 3C
R3068	B C 3C
R3069	B C 3C
R3071	B C 3C
R3072	B C 3C
R3073	B C 3C
R3074	B C 3C
R3075	B C 3C
R3081	B C 4C
R3501	A C 3B
R3502	A C 3B
R3503	A C 3A
R3504	A C 3A
R3505	A C 3A
R3506	A C 3A
R3507	A C 3A
R3508	A C 2A
R3509	A C 3B
R3510	A C 3B
R3511	A C 3A
R3512	A C 2A
R3521	A C 3B
R3522	A C 3B
R3523	A C 3A
R3524	A C 3A
R3525	A C 3B
R3526	A C 2B
R3527	A C 2A
R3701	A C 2A
R3702	A C 2A
R3703	A C 2B
R3704	A C 2B
R3705	A C 2B
R3706	A C 2B
R3707	A C 2A
R3708	A C 2A
R3709	A C 2A
R3710	A C 2A
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R3712	A C 2A
R3713	A C 2A
R3714	A C 2A
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R3732	A C 2A
R3733	A C 1A
R3734	A C 1A
R3735	A C 1A
R3736	A C 1A
R3737	A C 1A
R3738	A C 1A
R3739	A C 1A
R3740	A C 2A
R3741	A C 1A
R3742	A C 2A
R3743	A C 2A
R3744	A C 2A
R3745	A C 2A
R3746	A C 2A
R3747	A C 2A
R3748	A C 2A
R3801	B C 2A
R3802	B C 2A
R3803	B C 3A
R3804	B C 3A
R3805	B C 3A
R3806	B C 2A
R3807	B C 3A
R3808	B C 3B
R3809	B C 3B
R4201	A C 3A
R4202	A C 4B
R4206	A C 3B
R4207	A C 3B
R4301	A C 4B
R4302	A C 4B
R4303	A C 4B
R4304	A C 4B
R4305	A C 4B
R4306	A C 4B
R4307	A C 4B

REF.NO.	LOCATION
R4308	A C 4B
R4309	A C 3B
R4310	A C 3B
R4311	A C 3B
R4312	A C 3B
R4314	A C 4B
R4315	A C 4B
R4316	A C 4B
R4317	A C 4B
R4318	A C 4B
R4319	A C 4B
R4320	A C 4B
R4321	A C 4B
R4326	A C 4B
R4328	A C 4C
R4329	A C 4C
R4330	A C 4B
R4331	A C 4B
R4332	A C 4B
R4333	A C 4B
R4334	A C 4B
R4339	A C 4B
R4340	A C 4B
R4341	A C 3B
R4342	A C 3B
R4343	A C 3B
R4344	A C 3B
R4345	A C 3B
R4346	A C 3B
R4347	A C 3B
R4348	A C 3B
R4349	A C 4B
R4350	A C 4B
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R4352	A C 4B
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R4355	A C 4B
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R5507	B C 4A
R5509	B C 3B
R5511	B C 4A
R5512	B C 3A
R5513	B C 3A
R5514	B C 3A
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R6009	A C 1C
R6010	A C 1C
R6011	A C 1C
R6012	A C 1C
R6101	A C 2D
R6102	A C 2D
R6103	A C 2D
R6104	A C 2D
R6105	A C 2D
R6106	A C 2D
R6107	A C 2C
R6108	A C 2C
R6109	A C 2C
R6110	A C 2C
R6111	A C 2C
R6112	A C 2D
R6113	A C 2D
R6201	B C 3D
R6202	B C 3D
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R6208	B C 3C
R6209	B C 2D
R6210	B C 2D
R6211	B C 2D
R6212	B C 2D
R6213	B C 2D
R6214	B C 2D
R6215	B C 2D
R6216	B C 2C
R6217	B C 3C
R6218	B C 1C
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R6223	B C 2D
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R6225	B C 1C
R6226	B C 1C
R6227	B C 1D
R6228	B C 1D
R6229	B C 2C
R6230	B C 2C
R6231	B C 2C
R6232	B C 2C
R6233	B C 2C
R6234	B C 2C
R6235	B C 2C
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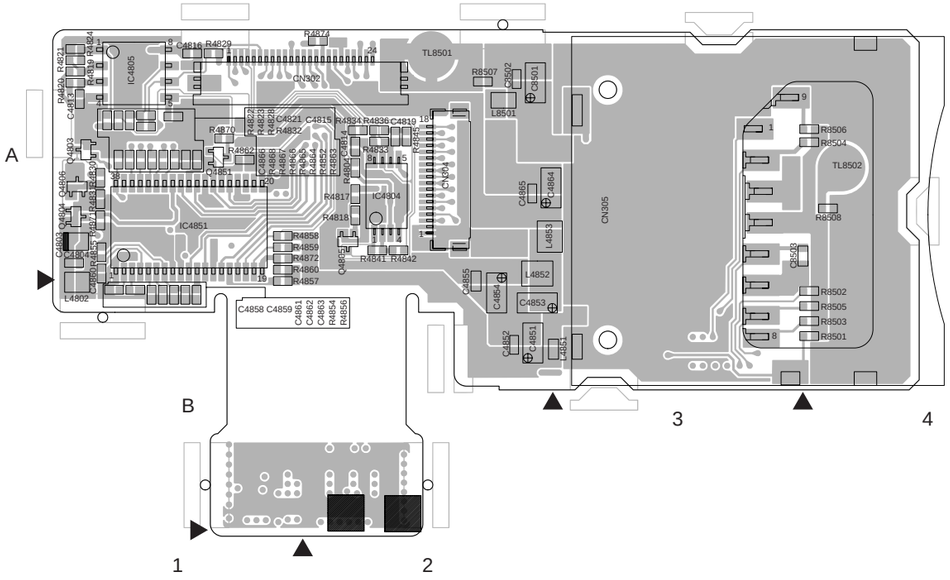
R6237	B C 2C
R6238	B C 2C
R6239	B C 2C
R6240	B C 2C
R6241	B C 2C
R6242	B C 2C
R6243	B C 2C

REF.NO.	LOCATION
R6244	B C 2C
R6245	B C 2C
R6246	B C 2C
R6701	A C 1C
R6702	A C 1C
R6703	A C 1C
R6704	A C 2C
R6705	A C 2C
R8701	B C 3C
R8702	B C 2B
R8703	B C 2B
R8704	B C 2B
R8705	B C 2B
R8706	B C 2B
R8707	B C 3B
R8708	B C 3B
R8709	B C 3B
R8710	B C 3B
R8711	B C 3B
R8712	B C 3B
R8713	B C 3B
R8714	B C 2B
R8715	B C 2B
R8716	B C 2B
R8717	B C 2B
R8718	B C 2B
R8719	B C 3B
R8720	B C 3B
R8721	B C 3B
R8722	B C 2B
R8723	B C 2B
RA1001	A C 3C
RA1002	A C 4C
RA1003	A C 3C
RA1004	A C 4C
RA1005	A C 2C
RA1006	A C 4C
RA1007	A C 4C
RA1008	A C 2C
RA3001	B C 4C
RA3002	B C 4C
RA3003	B C 3C
RA3004	B C 3C
RA3005	B C 1B
RA4201	A C 4B
RA4202	A C 4B
RA4305	A C 4B
RA4306	A C 4B
RA4307	A C 4C
RA4308	A C 4C
TEST POINT	
TL1001	A C 3C
TL1002	A C 2C
TL1003	A C 3C
TL1004	A C 3C
TL1021	B C 3C
TL1022	B C 2C
TL1023	B C 3C
TL1024	B C 3C
TL1025	B C 3C
TL1026	A C 3C
TL1029	A C 4C
TL1030	A C 2C
TL1036	A C 3C
TL1040	A C 4C
TL1041	A C 3B
TL1042	A C 3C
TL1043	A C 4C
TL1044	A C 3B
TL1045	A C 3C
TL1046	A C 3C
TL1047	A C 3B
TL1048	A C 3B
TL1049	A C 3B
TL1050	A C 3C
TL1051	A C 3C
TL1052	A C 2C
TL1053	A C 3C
TL1054	A C 1B
TL1055	A C 1A
TL1056	A C 1B
TL1057	A C 1A
TL1058	A C 1B
TL1601	B C 2B
TL1602	B C 1B
TL1603	B C 1B
TL1605	B C 1B
TL1606	B C 2B
TL1607	B C 2A
TL1608	B C 1B
TL1609	B C 2B
TL1610	B C 2A
TL1612	B C 2B
TL1613	B C 1B
TL1617	B C 1B
TL1618	B C 1B
TL1619	B C 2B
TL1620	B C 1B
TL1622	B C 2B
TL1623	B C 2A
TL1624	B C 2A
TL1625	B C 2B
TL1626	B C 1A
TL1627	B C 1A
TL1628	B C 1A
TL1629	B C 1A
TL3001	B C 3C
TL3006	B C 3C
TL3007	B C 4C
TL3008	B C 4C
TL3009	B C 4C
TL3011	B C 4C
TL3501	A C 3C
TL3801	B C 3B
TL3802	B C 3B
TL3805	B C 3B
TL4201	A C 4A

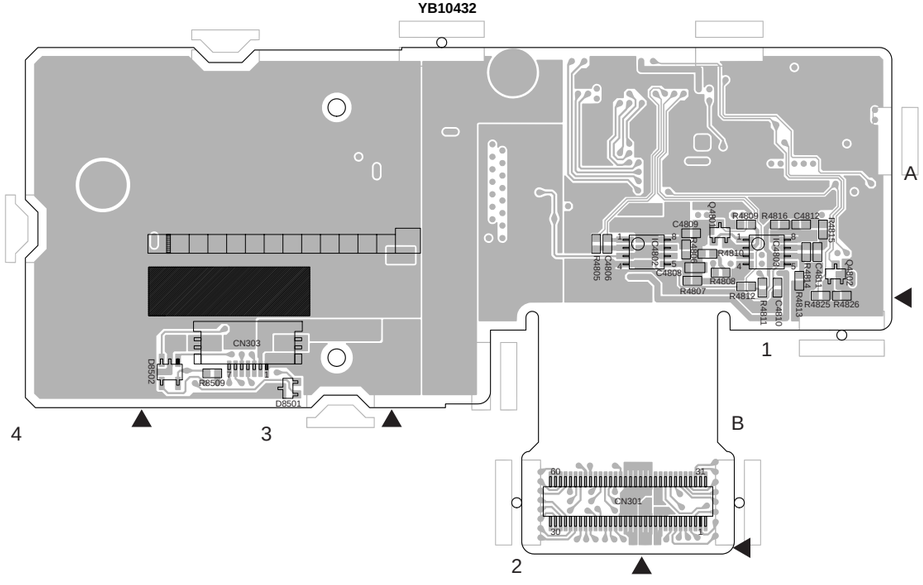
REF.NO.	LOCATION
TL4301	A C 3B
TL4302	A C 3B
TL4303	A C 3B
TL4312	A C 3C
TL4313	A C 3B
TL4314	A C 3B
TL4315	A C 3B
TL8305	A C 2B
OTHER	
J101	A D 1B
J102	A D 1B
J103	A C 1C
J104	A D 1D
X1001	A C 3C
X1002	A C 4C
X3002	B C 3C
X5501	B C 4A
X8701	B C 2B
X8702	B C 3B

4.45 SD CIRCUIT BOARD [FOR MEGA PIXEL MODEL]

<03> SD SIDE A
YB10432



<03> SD SIDE B
YB10432

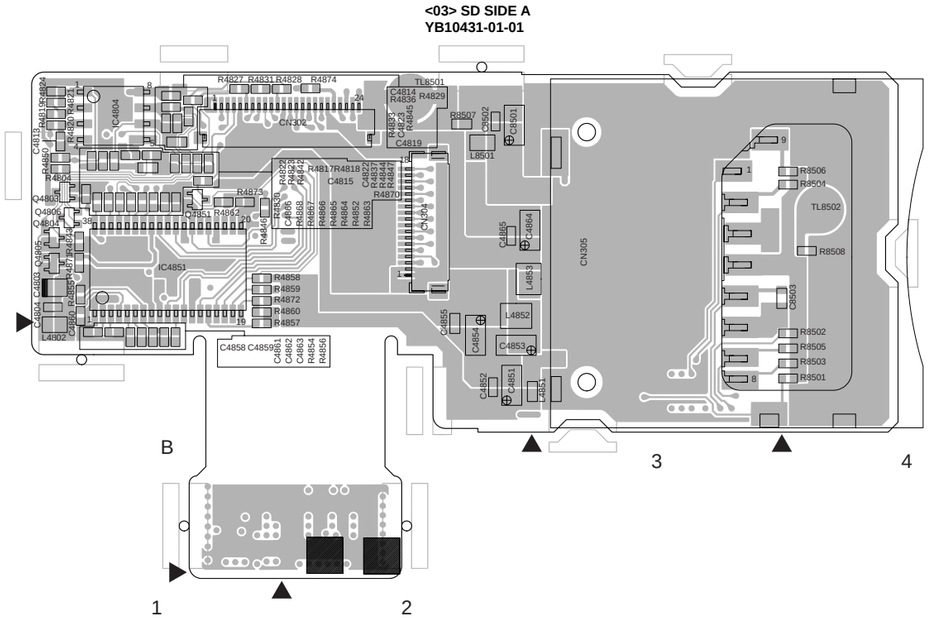


COMPONENT PARTS LOCATION GUIDE <SD> YB10432

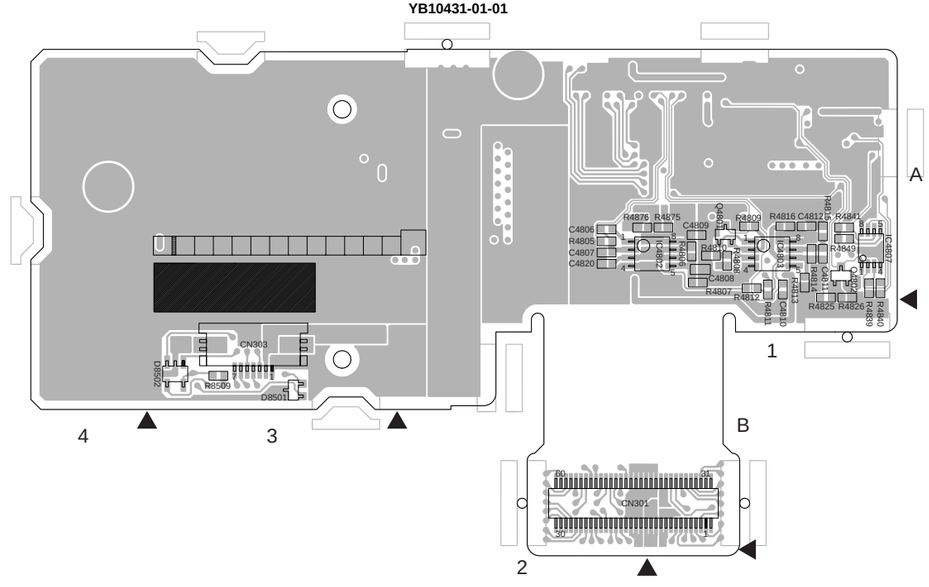
REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4858	A C 1B	**DIODE**		Q4802	B C 1A	R4816	B C 1A	R4842	A C 2A	R4874	A C 2A
C4803	A C 1A	C4859	A C 1B	D8501	B C 3B	Q4803	A C 1A	R4817	A C 2A	R4845	A C 2A	R8501	A C 4B
C4804	A C 1A	C4860	A C 1A	D8502	B C 3B	Q4804	A C 1A	R4818	A C 2A	R4852	A C 1A	R8502	A C 4B
C4806	B C 2A	C4861	A C 1B			Q4805	A C 2A	R4819	A C 1A	R4854	A C 1B	R8503	A C 4B
C4808	B C 1A	C4862	A C 1B	**IC**		Q4806	A C 1A	R4820	A C 1A	R4855	A C 1A	R8504	A C 4A
C4809	B C 1A	C4863	A C 1B	IC4802	B C 1A	Q4851	A C 1A	R4821	A C 1A	R4856	A C 1B	R8505	A C 4B
C4810	B C 1A	C4864	A C 2A	IC4803	B C 1A			R4822	A C 1A	R4857	A C 1B	R8506	A C 4A
C4811	B C 1A	C4865	A C 2A	IC4804	A C 2A	**RESISTOR**		R4823	A C 1A	R4858	A C 1A	R8507	A C 2A
C4812	B C 1A	C4866	A C 1A	IC4805	A C 1A	R4804	A C 2A	R4824	A C 1A	R4859	A C 1A	R8508	A C 4A
C4813	A C 1A	C8501	A C 2A	IC4851	A C 1A	R4805	B C 2A	R4825	B C 1A	R4860	A C 1A	R8509	B C 3B
C4814	A C 2A	C8502	A C 2A			R4806	B C 1A	R4826	B C 1A	R4862	A C 1A		
C4815	A C 1A	C8503	A C 4A	**COIL**		R4807	B C 1A	R4828	A C 1A	R4863	A C 1A	**TEST POINT**	
C4816	A C 1A			L4802	A C 1B	R4808	B C 1A	R4829	A C 1A	R4864	A C 1A	TL8501	A D 2A
C4819	A C 2A	**CONNECTOR**		L4851	A C 3B	R4809	B C 1A	R4830	A C 1A	R4865	A C 1A	TL8502	A D 4A
C4821	A C 1A	CN301	B C 2B	L4852	A C 2A	R4810	B C 1A	R4831	A C 1A	R4866	A C 1A		
C4851	A C 2B	CN302	A C 1A	L4853	A C 2A	R4811	B C 1A	R4832	A C 1A	R4867	A C 1A		
C4852	A C 2B	CN303	B C 3B	L8501	A C 2A	R4812	B C 1A	R4833	A C 2A	R4868	A C 1A		
C4853	A C 2B	CN304	A C 2A			R4813	B C 1A	R4834	A C 2A	R4870	A C 1A		
C4854	A C 2B	CN305	A C 3A	**TRANSISTOR**		R4814	B C 1A	R4836	A C 2A	R4871	A C 1A		
C4855	A C 2B			Q4801	B C 1A	R4815	B C 1A	R4841	A C 2A	R4872	A C 1A		

4.46 SD CIRCUIT BOARD [FOR NON-MEGA PIXEL MODEL]

<03> SD SIDE A
YB10431-01-01



<03> SD SIDE B
YB10431-01-01



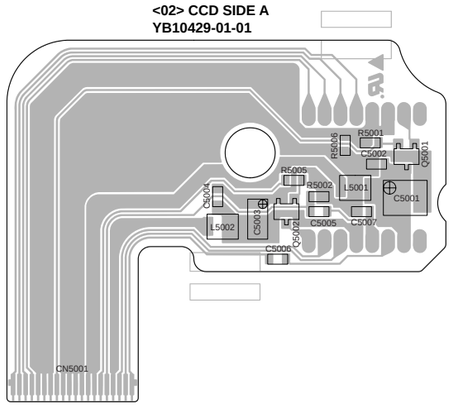
COMPONENT PARTS LOCATION GUIDE <SD> YB10431-01-01

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
CAPACITOR		C4851	A C 2B			IC4851	A C 1A			R4819	A C 1A	R4840	B C 1A
C4803	A C 1A	C4852	A C 2B	**CONNECTOR**				**RESISTOR**		R4820	A C 1A	R4841	B C 1A
C4804	A C 1A	C4853	A C 2B	CN301	B C 2B	**COIL**		R4804	A C 1A	R4821	A C 1A	R4842	A C 1A
C4806	B C 2A	C4854	A C 2B	CN302	A C 2A	L4802	A C 1B	R4805	B C 2A	R4822	A C 1A	R4843	A C 1A
C4807	B C 2A	C4855	A C 2B	CN303	B C 3B	L4851	A C 3B	R4806	B C 1A	R4823	A C 1A	R4844	A C 1A
C4808	B C 1A	C4858	A C 1B	CN304	A C 2A	L4852	A C 2A	R4807	B C 1A	R4824	A C 1A	R4845	A C 1A
C4809	B C 1A	C4859	A C 1B	CN305	A C 3A	L4853	A C 2A	R4808	B C 1A	R4825	B C 1A	R4846	A C 1A
C4810	B C 1A	C4860	A C 1A			L8501	A C 2A	R4809	B C 1A	R4826	B C 1A	R4847	A C 1A
C4811	B C 1A	C4861	A C 1B	**DIODE**				R4810	B C 1A	R4827	A C 1A	R4849	B C 1A
C4812	B C 1A	C4862	A C 1B	D8501	B C 3B	**TRANSISTOR**		R4811	B C 1A	R4828	A C 2A	R4850	A C 1A
C4813	A C 1A	C4863	A C 1B	D8502	B C 3B	Q4801	B C 1A	R4812	B C 1A	R4829	A C 1A	R4852	A C 1A
C4814	A C 1A	C4864	A C 2A			Q4802	B C 1A	R4813	B C 1A	R4830	A C 1A	R4854	A C 1B
C4815	A C 1A	C4865	A C 2A	**IC**		Q4803	A C 1A	R4814	B C 1A	R4831	A C 1A	R4855	A C 1A
C4819	A C 1A	C4866	A C 1A	IC4802	B C 1A	Q4804	A C 1A	R4815	B C 1A	R4833	A C 1A	R4856	A C 1B
C4820	B C 2A	C8501	A C 2A	IC4803	B C 1A	Q4805	A C 1A	R4816	B C 1A	R4836	A C 1A	R4857	A C 1B
C4822	A C 1A	C8502	A C 2A	IC4804	A C 1A	Q4806	A C 1A	R4817	A C 1A	R4837	A C 1A	R4858	A C 1A
C4823	A C 1A	C8503	A C 4A	IC4807	B C 1A	Q4851	A C 1A	R4818	A C 1A	R4839	B C 1A	R4859	A C 1A

REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION	REF.NO.	LOCATION
R4860	A C 1A	R8503	A C 4B				
R4862	A C 1A	R8504	A C 4A				
R4863	A C 1A	R8505	A C 4B				
R4864	A C 1A	R8506	A C 4A				
R4865	A C 1A	R8507	A C 2A				
R4866	A C 1A	R8508	A C 4A				
R4867	A C 1A	R8509	B C 3B				
R4868	A C 1A						
R4870	A C 1A	**TEST POINT**					
R4871	A C 1A	TL8501	A D 2A				
R4872	A C 1A	TL8502	A D 4A				
R4874	A C 2A						
R4875	B C 1A						
R4876	B C 2A						
R8501	A C 4B						
R8502	A C 4B						

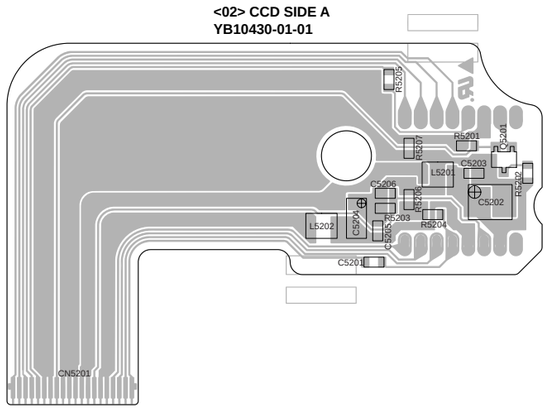
4.47 CCD CIRCUIT BOARD [FOR MEGA PIXEL MODEL]

<02> CCD SIDE A
YB10429-01-01



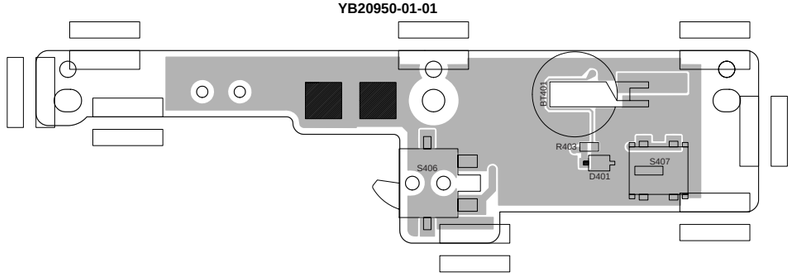
4.48 CCD CIRCUIT BOARD [FOR NON-MEGA PIXEL MODEL]

<02> CCD SIDE A
YB10430-01-01

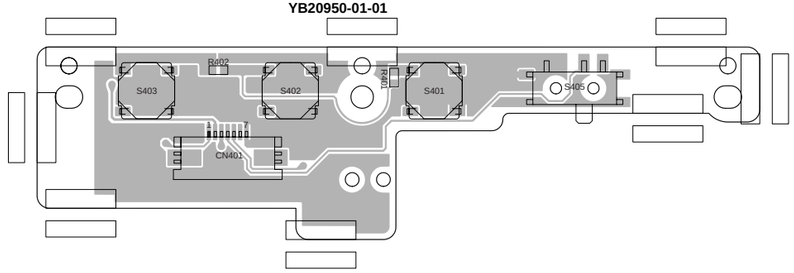


4.49 SIDE OPE CIRCUIT BOARD

<04> SIDE OPE SIDE A
YB20950-01-01

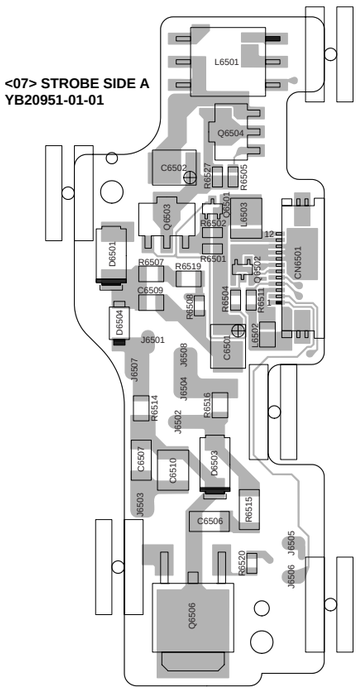


<04> SIDE OPE SIDE B
YB20950-01-01

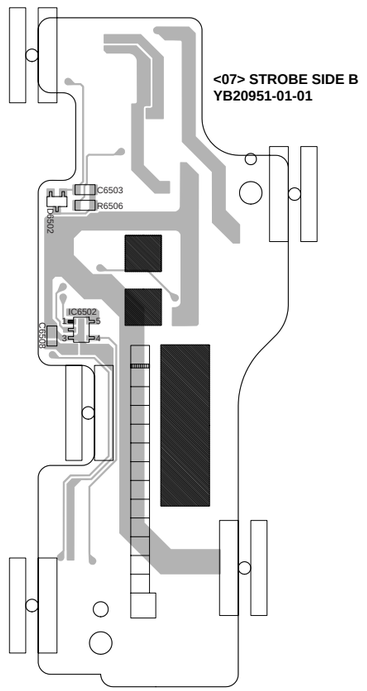


4.50 STROBE CIRCUIT BOARD [FOR STROBE MODEL]

<07> STROBE SIDE A
YB20951-01-01

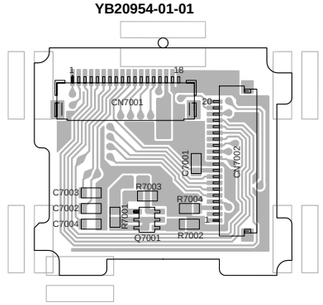


<07> STROBE SIDE B
YB20951-01-01

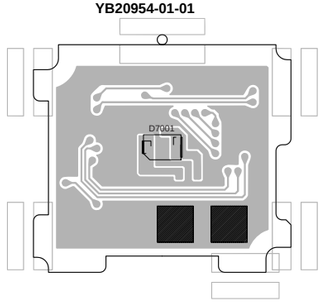


4.51 VFBW CIRCUIT BOARD

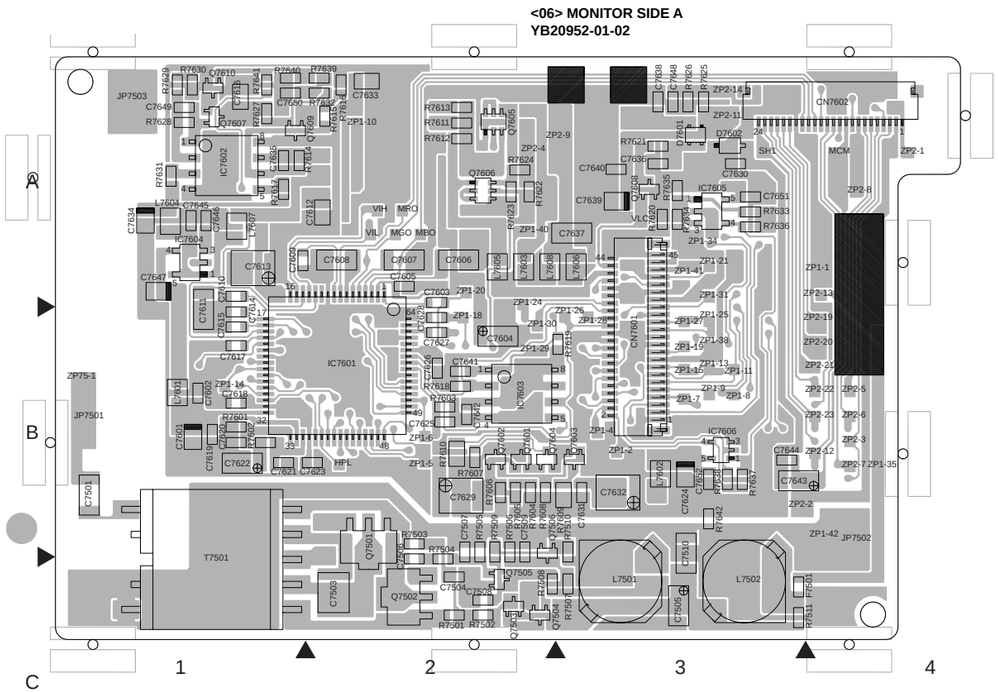
<08> VFBW SIDE A
YB20954-01-01



<08> VFBW SIDE B
YB20954-01-01



4.52 MONITOR CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE <MONITOR> YB20952-01-02

REF.NO.	LOCATION
CAPACITOR	
C7501	A C 1B
C7503	A C 2C
C7504	A C 2C
C7505	A C 3C
C7506	A C 2C
C7507	A C 2B
C7508	A C 2C
C7509	A C 2B
C7510	A C 3B
C7601	A C 1B
C7602	A C 1B
C7603	A C 2A
C7604	A C 2B
C7605	A C 2A
C7606	A C 2A
C7607	A C 2A
C7608	A C 2A
C7609	A C 1A
C7610	A C 1A
C7611	A C 1B
C7612	A C 2A
C7613	A C 1A
C7614	A C 1B
C7615	A C 1B
C7616	A C 1A
C7617	A C 1B
C7618	A C 1B
C7619	A C 1B
C7620	A C 1B
C7621	A C 1B
C7622	A C 1B
C7623	A C 2B
C7624	A C 3B
C7625	A C 2B
C7626	A C 2B
C7627	A C 2B
C7628	A C 2B
C7629	A C 2B
C7630	A C 3A
C7631	A C 3B
C7632	A C 3B
C7633	A C 2A
C7634	A C 1A
C7635	A C 1A
C7636	A C 3A
C7637	A C 3A
C7638	A C 3A
C7639	A C 3A
C7640	A C 3A
C7641	A C 2B
C7642	A C 2B
C7643	A C 3B
C7644	A C 3B
C7645	A C 1A
C7646	A C 1A
C7647	A C 1A
C7648	A C 3A
C7649	A C 1A
C7650	A C 1A
C7651	A C 3A
C7652	A C 3B
CONNECTOR	
CN7601	A C 3B
CN7602	A C 4A
DIODE	
D7601	A C 3A
D7602	A C 3A
FUSE	
F7501	A C 3C
IC	
IC7601	A C 2B
IC7602	A C 1A
IC7603	A C 2B
IC7604	A C 1A
IC7605	A C 3A
IC7606	A C 3B
COIL	
L7501	A C 3C
L7502	A C 3C
L7601	A C 1B
L7602	A C 3B
L7603	A C 2A
L7604	A C 1A
L7605	A C 2A
L7606	A C 3A
L7607	A C 1A
L7608	A C 2A
TRANSISTOR	
Q7501	A C 2B
Q7502	A C 2C
Q7503	A C 2C
Q7504	A C 2C
Q7505	A C 2C
Q7506	A C 2B
Q7601	A C 2B
Q7602	A C 2B
Q7603	A C 3B
Q7604	A C 2B
Q7605	A C 2A
Q7606	A C 2A
Q7607	A C 1A
Q7608	A C 3A
Q7609	A C 1A
Q7610	A C 1A
RESISTOR	
R7501	A C 2C
R7502	A C 2C
R7503	A C 2B
R7504	A C 2C
R7505	A C 2B
R7506	A C 2B
R7507	A C 3C
R7508	A C 2C
R7509	A C 2B
R7510	A C 3B
R7511	A C 3C
R7602	A C 1B
R7603	A C 2B
R7604	A C 2B
R7605	A C 2B
R7606	A C 2B
R7607	A C 2B
R7608	A C 2B
R7609	A C 3B
R7610	A C 2B
R7611	A C 2A
R7612	A C 2A
R7613	A C 2A
R7614	A C 1A
R7615	A C 2A
R7616	A C 2A
R7617	A C 1A
R7618	A C 2B
R7619	A C 3B
R7620	A C 3A
R7621	A C 3A
R7622	A C 2A
R7623	A C 2A
R7624	A C 2A
R7625	A C 3A
R7626	A C 3A
R7627	A C 1A
R7628	A C 1A
R7629	A C 1A
R7630	A C 1A
R7631	A C 1A
R7632	A C 2A
R7633	A C 3A
R7634	A C 3A
R7635	A C 3A
R7636	A C 3A
R7637	A C 3B
R7638	A C 3B
R7639	A C 2A
R7640	A C 1A
R7641	A C 1A
R7642	A C 3B
OTHER	
JP7501	A C 1B
JP7502	A C 4B
JP7503	A C 1A
SH1	A C 3A
T7501	A C 1C
ZP1-1	A C 4A
ZP1-2	A C 3B
ZP1-4	A C 3B
ZP1-5	A C 2B
ZP1-6	A C 2B
ZP1-7	A C 3B
ZP1-8	A C 3B
ZP1-9	A C 3B
ZP2-1	A C 4A
ZP2-2	A C 3B
ZP2-3	A C 4B
ZP2-4	A C 2A
ZP2-5	A C 4B
ZP2-6	A C 4B
ZP2-7	A C 4B
ZP2-8	A C 4A
ZP2-9	A C 2A
ZP1-10	A C 2A
ZP1-11	A C 3B
ZP1-13	A C 3B
ZP1-14	A C 1B
ZP1-15	A C 3B
ZP1-18	A C 2B
ZP1-19	A C 3B
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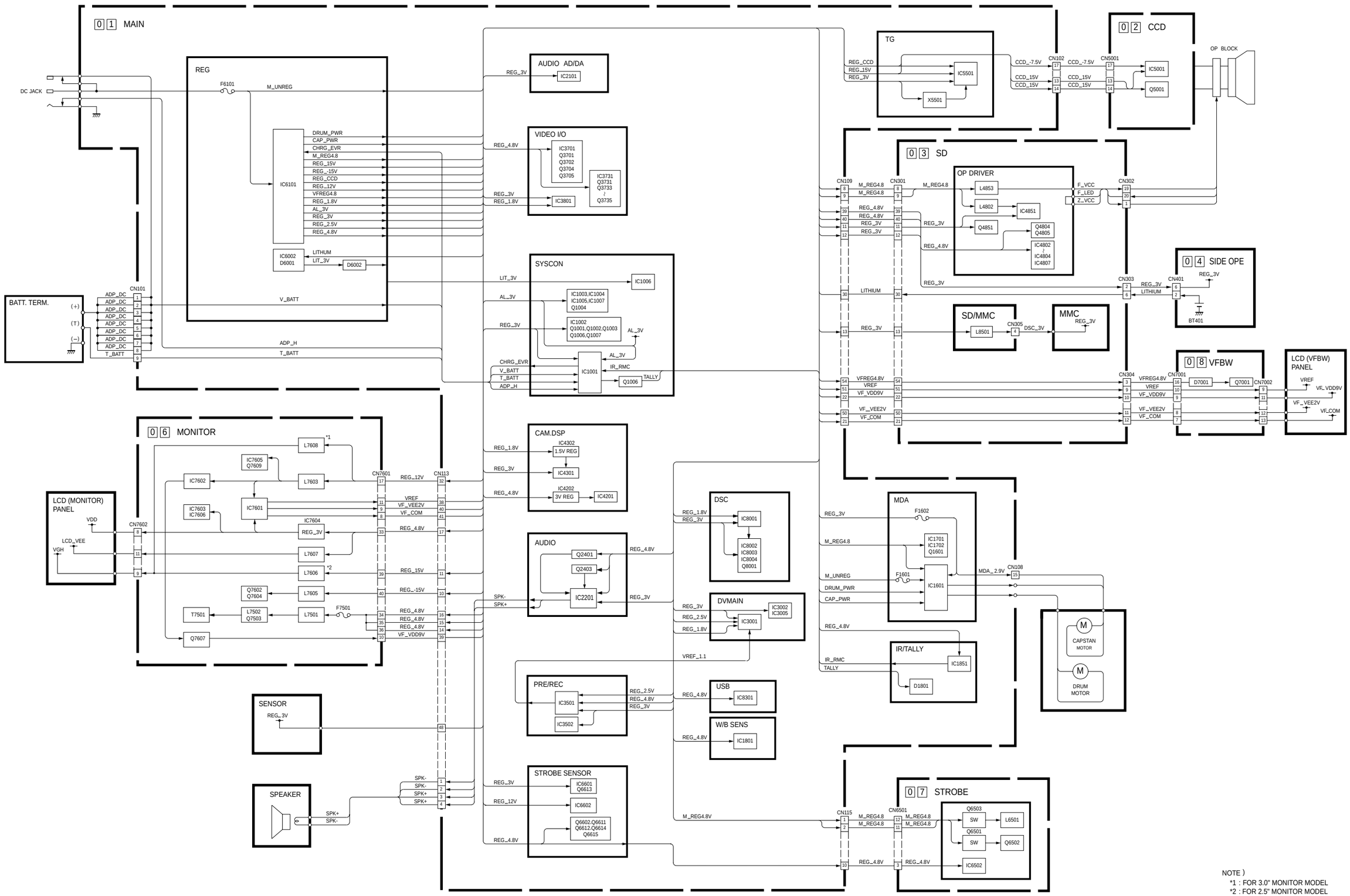
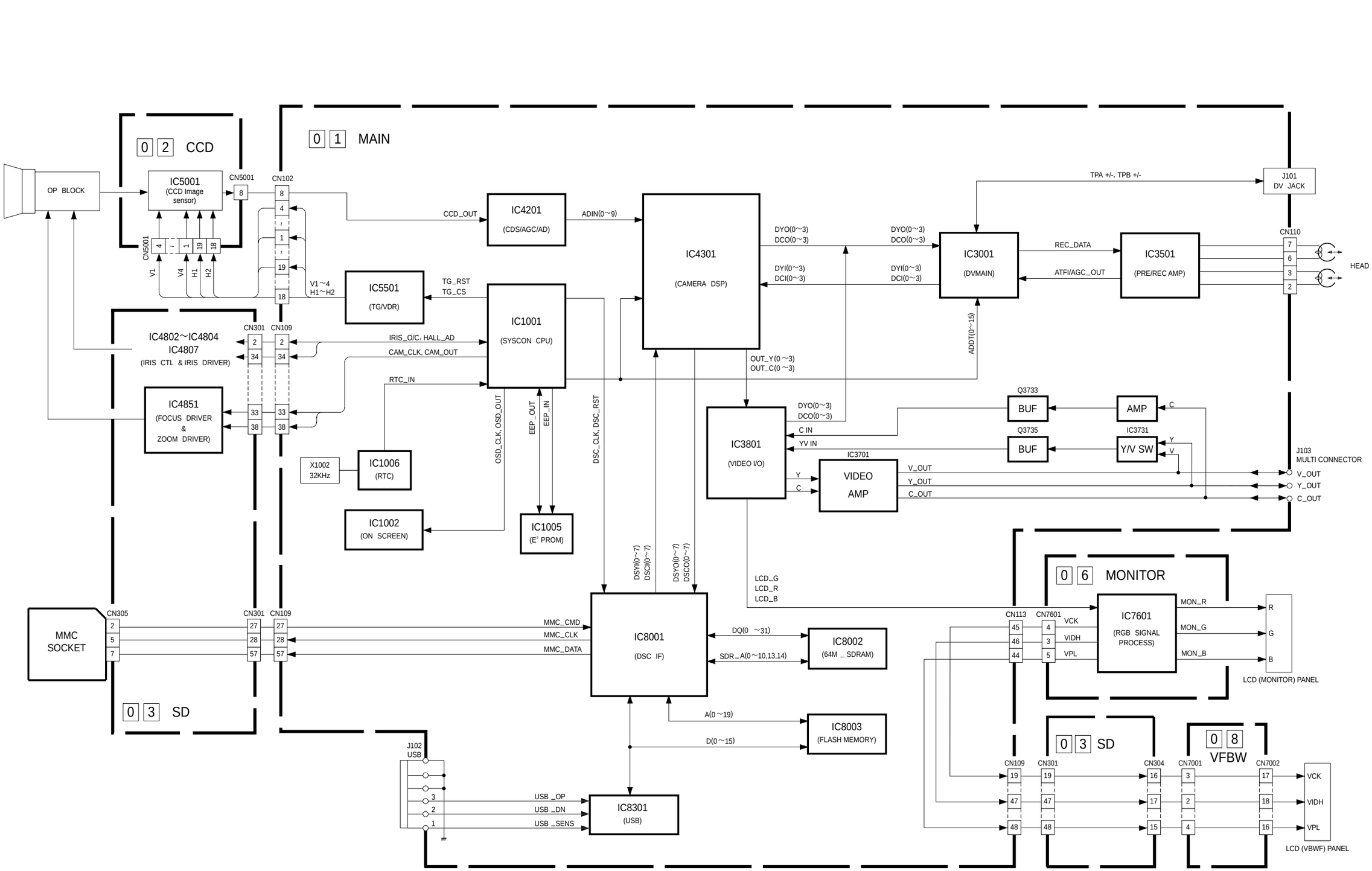
ZP1-28	A C 3B
ZP1-31	A C 3A
ZP1-34	A C 3A
ZP1-35	A C 4B
ZP1-38	A C 3B
ZP1-40	A C 2A
ZP1-41	A C 3A
ZP1-42	A C 4B
ZP2-10	A C 2A
ZP2-11	A C 2A
ZP2-12	A C 4B
ZP2-13	A C 4A
ZP2-14	A C 3A
ZP2-19	A C 4B
ZP2-20	A C 4B
ZP2-21	A C 4B
ZP2-22	A C 4B
ZP2-23	A C 4B
ZP75-1	A C 1B

4.53 POWER SYSTEM BLOCK DIAGRAM



4.54 VIDEO SYSTEM BLOCK DIAGRAM



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